

# CURRICULUM VITAE

## GINTS ERNESTSONS

Gints Ernestsons is a business manager, team-builder, entrepreneur and technology investor, with more than 30 years of professional IT industry experience.

More than 70 large and smaller scale mission-critical IT systems were delivered, most built from ground zero or as part of privately co-founded and/or VC-backed companies by Gints.

Gints is a creator of several new generation search and database technologies, focused on massively scalable cluster computing. Multiple of his created software technologies have been commercialized and are being operated by various companies today.

Gints studied physics, mathematics and computer science in Latvian University, Faculty of Physics and Mathematics. Additionally he studied business management in Faculty of Economics, Latvian University.

Gints was chief system architect and CTO in public and private enterprises building the system of key national registers for Latvia, including the Population Register and Company Register.

He was also a technical project leader in international IT projects for United Nations Organization and European Commission.

He has many publications in periodicals "Baltic IT Review" (English), "Datorpasaule", "Sakaru pasaule", "Mikroprocessornaja Tehnika" (Russian), "Dienas Bizness" and others.

Gints is an entrepreneur in software technology and information services business. He co-founded range of companies specializing in IT software development or information services: Lursoft (exited in 2007), Clusterpoint (closed in 2017 by VCs for restructuring), "Firmas.lv", "Data Visualization Software Lab" (Zoomcharts.com) and "Contextprime", the last 3 companies profitable and growing today.

Gints is a guest lecturer in main Latvian universities (Latvian University, Riga Technical University, Ventspils Augstskola) about NoSQL databases and Artificial Intelligence in Big Data search, and takes active part in different multi-party research projects in computer science.

- 1. Family name:** ERNESTSONS
- 2. First names:** GINTS
- 3. Date of birth:** 20-JUL-1965
- 4. Nationality:** Latvian
- 5. Civil status:** Married. Have a 15 years old son and 12 years old daughter
- 6. Education:**

<i>Institution [ Date from - Date to ]</i>	Subject of studies or Diplomas obtained
University of Latvia. [ 1983-1989 ]	Faculty of Physics and Mathematics Physics
University of Latvia. [ 1998-2000 ]	Faculty of Economics and Management of Business administration

**7. Language skills:** (Mark 1 to 5 for competence)

<i>Language</i>	<i>Reading</i>	<i>Speaking</i>	<i>Writing</i>
English	5	5	5
Russian	5	5	5
Latvian	Native	Native	native

**8. Membership of professional bodies:**

2008 Latvian IT cluster (representing Clusterpoint Ltd.)

2003-2005 Association of the Latvian Computer Technology Manufacturers (representing company membership from Lursoft IT)

**9. Present position**

Contextprime, CTO

**10. Years within the IT business and in management roles: > 30**

Software development since 1985

IT project management since 1990

Company management roles since 1995

**11. Key qualifications:**

- 1 Leading business and project management experience for large national and international IT projects;
- 2 Creator of two national country scale web search engines - SIETS.NET and Funnel.co.za (for South Africa);
- 3 Comprehensive knowledge of government funded public registers - Company Register, Latvian Court System, Population register, Ministry of Justice and Ministry of Interior administrative and legal systems, other governmental systems (practical participation in projects for legal national registers and public databases - Land cadastre, Tax administration, Vehicle register, Criminal and administrative penalties databases, Personal identification documents (passports, ID cards), Unified Court Information System, competence of the respective legal IT systems;
- 4 Knowledge of EU and International legislation in fields of Personal data protection, Public Registers Acts;
- 5 Citizenship and Naturalization legislation, Migration and Border management administrative procedures and systems, including knowledge of EC recommendations for facilitation of information exchange in many administrative areas (EBR, IDA projects), EC recommendations for building public IT systems;
- 6 Project management for the design of software requirements specifications, software development and testing principles, implementation of framework software platforms according to the specifications;
- 7 Good security expertise, including information systems and personal data protection means and techniques (firewalls, VPNs, e-mail and WEB security);
- 8 Drafting regulations and instructions for Latvian state and institutional bodies concerning public information systems (such as public registers, data protection means and regulations, IT security related legal documents etc.);
- 9 Expert advise on IT technology contracts;
- 10 Project leadership skills to manage and build turn-key IT systems involving multiple partnerships and suppliers, organization of teamwork for project fulfillment;
- 11 Practical leading experience of building large nationwide computer networks for public registers and the

Government agencies, Internet networking of the respective authorities.

12 Mastery of IT terminology (Latvian, English and Russian);

## 12. Specific experience in the region:

<i>Country</i>	<i>Date from - Date to</i>
Riga, Latvia	April 1983- present
International markets	Since 1995 (United Kingdom, Spain, Denmark, Germany, Sweden, Finland, Estonia, Lithuania and other EU countries, Norway and Switzerland, USA & Canada, South Africa)

## 13. Professional Experience Record:

<i>Date: from (month/year) to (month/year)</i>	2018 – 2020
<i>Location</i>	Riga, Latvia
<i>Company</i>	Contextprime Ltd.
<i>Position</i>	Chief Technology Officer, co-founder
<i>Description</i>	<p>- Crawler and search technology vendor, co-founded by 10 ex Lursoft and ex Clusterpoint software engineers, profitable from day one. Company is servicing previous Clusterpoint DBMS product software customers, providing technical support.</p> <p>Company is fast growing its customer list for new search technology based projects. Among its customers are:</p> <ul style="list-style-type: none"> <li>-Latvian National Library;</li> <li>- State Revenue Service;</li> <li>- Citadele Bank (one of TOP 5);</li> <li>- Tet (ex Lattelcom);</li> <li>- State Regional Development Agency (running Latvia.lv central government portal for e-services);</li> <li>- Latvijas Vestnesis (official government publisher authority of laws and regulations);</li> <li>- Latvijas Talrunis (the leading business directory and local search vendor);</li> <li>- Uniso SIA;</li> <li>- Imprimatur Capital VC fund (UK, London);</li> <li>- other companies.</li> </ul>

<i>Date: from (month/year) to (month/year)</i>	2015 – 2018
<i>Location</i>	Riga, Latvia
<i>Company</i>	Data Visualization Software Lab
<i>Position</i>	Advisory Board Of Directors, co-founder
<i>Description</i>	<p>- Development of Zoomcharts.com data visualization software technology and customer base. Among company customers are many F500 companies: Microsoft, Apple, Ericsson, Paypal, Honeywell, Adobe, P&amp;G, PWC, Ernst&amp;Young, KPMG, GAP, HP, DHL, Atos, BMW, Michelin, Schlumberger, ConocoPhillips, Tyson, Swedbank, National Bank of Canada, Sterling National Bank, Williams, Sports Direct, Sega, Autodesk, NASA, Siemens, Comcast, Ricoh, Nokia, Belkin, Fridays. More than 300 companies from 50+ countries and 40+ industries are using ZoomCharts.</p>

<i>Date: from (month/year) to (month/year)</i>	2015-2017
<i>Location</i>	London, United Kingdom
<i>Company</i>	Clusterpoint Group Limited, UK
<i>Position</i>	Board of Directors, co-founder
<i>Description</i>	- Development Clusterpoint Cloud Database as a Service platform, hosted on own 100-

	infrastructure servers in Telia data centre, new spin-off products and related services, with > 7000 cloud account users signed from 2015-2016.  Organizing world-wide hackatons for developers in UK, US, India etc.
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<i>Date: from (month/year) to (month/year)</i>	2006 – 2015
<i>Location</i>	Riga, Latvia
<i>Company</i>	Firmas.lv
<i>Position</i>	Management Board, co-founder
<i>Description</i>	- Development of Firmas.lv online subscription service and business, providing value-added information and easy search in data from public sector information aggregated from government registers: Company Register, Land Cadastre, Vehicle Register, State Revenue Service databases etc. Competitor to market leader Lursoft.

<i>Date: from (month/year) to (month/year)</i>	2006 – 2012
<i>Location</i>	Riga, Latvia
<i>Company</i>	Clusterpoint Ltd.
<i>Position</i>	Chief Executive Officer, co-founder
<i>Description</i>	- Development and sales of an innovative database platform product: Clusterpoint DBMS, new spin-off products and related services. Organizing international company presence in trade fairs, exhibitions, business visits, marketing and selling Clusterpoint products.

<i>Date: from (month/year) to (month/year)</i>	December 2001 – 2005
<i>Location</i>	Riga, Latvia
<i>Company</i>	Lursoft IT
<i>Position</i>	Chief Technology Officer, co-founder
<i>Description</i>	- Development of large scale web crawler and search systems (SIETS.NET), development of national Internet crawler and search application for the first scalable national Internet search engine Siets.lv, and the first South African national search engine Funnel.co.za (sold to A.C. Braby Pty, the leading business directory vendor in South Africa).

<i>Date: from (month/year) to (month/year)</i>	October 1999 - 2001
<i>Location</i>	Riga, Latvia
<i>Company</i>	Lursoft IT, co-founder
<i>Position</i>	Project leader, IT expert
<i>Description</i>	Project management and technology expertise in the international cooperation projects: - European Business register, Technical expert for EEIG EBR (Brussels) from Latvia - Project leader for software development and maintenance of EBR Core System Release 3 under the EEIG EBR contract with Lursoft-IT Expert for Lursoft-IT projects: - Pilot project for register of Enterprises for Electronic filing of documents - Assistance to the design of the project documentation and schedules for the Unified national register of legal persons - Assistance to the implementation of the software system for the forthcoming Commercial Register Law under the contract with Ministry of Justice - Internet networking and data security expertise Project technical leadership for: - Lursoft ON-LINE services integration into HansaNet - Lursoft's digital signatures and PKI support library development supervision - Secure WEB services (SSL-based) enabling for Lursoft IT systems - Digital signatures WEB-based issuance system design and supervision - BGP routing, firewall and other business continuity tasks supervision. - TIC project (Trust and Internet Confidence) manager.

<i>Date: from (month/year) to (month/year)</i>	January 1998 - July 1999
<i>Location</i>	Riga, Latvia

<i>Organization</i>	Ministry of Interior (MoI)
<i>Position</i>	Director of the Information technology and communications department
<i>Description</i>	Project leader in corporate and nationwide IT related projects. Largest projects at MoI: - Eastern border management and technical supervision system (technical management of the IT part of the contract with Siemens-Nixdorf (Germany) and Thompson (France), framework contract value about 30 MEUR. - Digitalization of paper archives of the Ministry of Interior, Information center, including, archive of Criminal Cases (300 000), database of individuals with criminal penalties and offences (900 000), lost and stolen documents, and many other Police, Border control, Immigration and Rescue Service databases (over 40). Development of application software to publish this information for authorized personnel. - multiple international projects and working groups (see below). - implementation of PC usage smart-card authentication system

<i>Date: from (month/year) to (month/year)</i>	January 1998 - December 1998
<i>Location</i>	Riga, Latvia
<i>Company</i>	Ministry of Communications,
<i>Position</i>	Deputy head of the working group
<i>Description</i>	Project to establish governmental voice and data communication network for exchange of public and administrative information among Estonia, Latvian and Lithuania (according decisions made by Baltic States Assembly and BSA Informatics Commission). Organization of series of workshops in Riga, Vilnius and Tallinn. Implementation of the project from Latvian side.

<i>Date: from (month/year) to (month/year)</i>	March 1996 - July 1997
<i>Location</i>	Riga, Latvia
<i>Organization</i>	Ministry of the Interior, Information center
<i>Position</i>	Head of the working group for the implementation of the IT part of the international contract between Latvian and Flanders (Belgium) governments
<i>Description</i>	Establishment of modern training facilities and organization of IT learning for the employees of the Information center of the Ministry of Interior.

<i>Date: from (month/year) to (month/year)</i>	August 1996 - December 1997
<i>Location</i>	Riga, Latvia
<i>Organization</i>	Ministry of the Interior
<i>Position</i>	Project leader for the implementation of the technical assistance project for the Unified communication and information system under the contract between Latvian-German governments (contract value 3 MDEM).
<i>Description</i>	Establishment of digital fiber based data and voice network spanning Police, Border control, Immigration, Rescue and Emergency Service and Penitentiary administration buildings in Riga city, computerization of the respective authorities workflow, supply of necessary software and hardware, establishment of security procedures at different administrative and IT levels.

<i>Date: from (month/year) to (month/year)</i>	August 1997 - December 1997
<i>Location</i>	Riga, Latvia - EU, Denmark
<i>Organization</i>	Ministry of the Interior, Citizen and Immigration Department, Passport center
<i>Position</i>	Leading technical member (representing Latvian government) of the Coordination Committee for implementation of the PHARE technical assistance project for issuing of Non-citizens Passports.
<i>Description</i>	Complete IT system for rapid issuance of Non-citizens passports was tendered according to PHARE procedures and implemented. The job was effectively done in close cooperation with EU Ambassador in Latvia Mr. Gunter Weiss, Coordinator of PHARE projects in Latvia Mr. Richard Lucking, and the

	Government of Denmark, represented by Denmark's Ministry of Interior. Hardware, software and training was supplied within framework of the project.
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<i>Date: from (month/year) to (month/year)</i>	April 1995 - 1996 September 1996
<i>Location</i>	Finland, Riga, Lithuania, Estonia, Belarus
<i>Organization</i>	International Organization of Migration, United Nations (UNHCR)
<i>Position</i>	Expert for International Organization of Migration, Helsinki office
<i>Description</i>	Organization of series of seminars and workshops under the framework program "Capacity Building for Migration Information Management in the Baltic States and CIS". Chairing of international seminars in all three Baltic countries and Belarus in cooperation with IOM's expert from FOA (Sweden) Mr. Lennart Johanson. Joint preparation of the final report for IOM and PHARE funding authorities. Workshops and seminars in Helsinki and Brussels IOM's central offices. Coordination of technical assistance projects (hardware, software, training) for Latvian Citizenship and Migration office, Immigration Police and Border Control. Set-up of IT training facilities for Latvian Border Control.

<i>Date: from (month/year) to (month/year)</i>	1992 - 1996
<i>Location</i>	Riga, Latvia - Denmark
<i>Organization</i>	Citizenship and Immigration department
<i>Position</i>	Project leader (from the Latvian side) and member of the Steering Committee for the Technical assistance project under the contract between Latvian and Denmark's governments
<i>Description</i>	Implementation of the Central Population Register System for the Citizenship and Immigration department (contract value DKK 17,5M)

<i>Date: from (month/year) to (month/year)</i>	1991 - 1993
<i>Location</i>	Riga
<i>Organization</i>	Migration Commission of Latvian Popular Front, later Citizenship and Migration Office, Ministry of Justice
<i>Position</i>	Advisor to the Director, later Deputy Director, Head of IT Systems. Setting up and development of computer network and migration databases: Foreigners, Students, Military families and members, Immigration Cases, Repatriation cases, Register of Citizens, Register, List of Unwanted persons, Bookkeeping etc. In total over 15 different IT systems later running everyday activities of the newly established Latvian government authority.
<i>Description</i>	Team building and supervision, development activities, project management.

<i>Date: from (month/year) to (month/year)</i>	1991 - 1992
<i>Location</i>	Riga
<i>Organization</i>	Interbaltija, part of IT employees later split off to co-found a new company Lursoft
<i>Position</i>	Project Manager and IT project leader
<i>Description</i>	Information system development of for the Latvian Register of Enterprises.

<i>Date: from (month/year) to (month/year)</i>	1985 - 1990
<i>Location</i>	Riga
<i>Organization</i>	Institute of Solid State Physics, Latvian University
<i>Position</i>	Software developer for prof. Janis Klava laboratory

<i>Description</i>	Programming, mainframe administration (IBM type 390, Soviet clone), software modeling.
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#### **14. Others:**

##### Administrative and Management positions

2014-2017	Clusterpoint Group Limited (UK), Board of Directors
2006-2014	Clusterpoint Ltd, Management Board
2006-2015	Firmas.lv, Management Board
1998-2006	Chief Technology Officer, Lursoft IT
1997 - 1998	Director, Department of Informatics and Communications Ministry of Interior
1998 - 1999	Deputy Chairman of Advisory Board of Directors Non-profit state joint stock company "State Information Network Agency"
1996 - 1997	Deputy State Secretary for IT & Communication sector Ministry of Interior
1993 - 1994	Advisor for the Minister of Interior Information Technology
1992 - 1993	Deputy director for IT Citizenship and immigration department (Ministry of Justice 92-93, Ministry of Interior)
1992-1998	Co-founder of Lursoft Ltd., Chief Architect, Lead Software Developer
1991 - 1992	Head of IT project management Development of the government information system for the Company Register of Latvia. Joint-venture "Interbaltija", owned and run by future Prime Minister Vilis Kristopans.

##### Other assignments

According to the Cabinet of Ministers or Prime Minister's decision approved:

1998	Head of working group to develop Regulations for Unified State Alerting System for Emergency situations
1997	Member of the expert commission for State Revenue Service (Tax administration) informatics project and State Registers complex evaluation.
1997	Deputy Head for international tender commission for implementation of Latvian visa issuance IT system.
1996-1997	Member of the working group for implementation of the State Importance Data Communications Network for Latvia
1995	Member of the working group for development of State Importance Data Communications Network conception, technical-economical justification and implementation plan.

Others:

- |           |  |
|-----------|--|
| 1998-1999 | Member of Supervision Council for Tax Administration computerization project                         |
| 1998-1999 | Member of Strategic Working group of the Coordination Council for the National Program "Informatics" |

Publications & interviews

- "Baltic IT Review" (English)
- monthly IT magazine "Datorpasaule", now E-pasaule (Latvian)
- "Sakaru pasaule" (Communication's World) (Latvian)
- scientific publications in Russian magazine Mikroprocessornaja Tehnika
- leading business paper "Dienas Bizness"

**15. Other skills:**

Expert knowledge of Microsoft Office and presentation tools (Word, Excel, MS Project, MS PowerPoint, MS Visio).  
Professional Internet usage.

Holder of B-category driver's licence.

Experience and skills in development of unique software and Big data scalable mission-critical IT systems:

- Internet crawler and search technologies, creator and owner of unique **SIETS.NET** search engine and Internet crawler software (C/C++).
- NoSQL databases, creator of **Clusterpoint DBMS**, Cloud DBaaS database technology (C/C++)
- scalable application servers for web systems, creator of unique **KAKTUS** application server
- interactive data visualization software, creator of unique **Zoomcharts.com** JavaScript SDK
- national public registers (company register system LURS, population register, taxpayers register)
- national library, digital culture, academic research information systems
- document archiving, full text search and retrieval systems
- cluster and grid computing enabled resilient system architectures
- SQL servers (Sybase, Oracle, MS SQL, MySQL, PostgreSQL).
- document management systems (DMS), digital libraries on optical disks and CDs
- person identification document issuance IT systems (passports, ID cards)
- accounting and financial systems
- CRM and ERP systems
- smart card authorization systems
- security of IT systems
- digital signatures and e-documents
- integrated information content management tools

Networking projects experience:

- TCP/IP, FrameRelay, FDDI, ATM
- Corporate PBX systems, trunk-radio systems
- Network security - firewalls, VPNs, software and hardware encryption , PKI

Operating systems:

- DOS/Win95/98/2000/XP/Windows7/Windows10
- WindowsNT/Windows Server
- UNIX, incl., Linux, FreeBSD, OpenBSD, Solaris
- Novell Netware.

Programming languages:

Assembler, PL/1, Fortran, Basic, Clipper, Dbase, Microsoft FoxPro, Software AG Adabas, Oracle SQL, Sybase SQL, C, C++, HTML., PowerBuilder, Java, PHP, HTML, CSS, XML, Python, JavaScript.

Information last updated: Jan 28, 2021