

# CV

## JÜRGEN HANNUS

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### **Introduction**

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Senior Full Stack Developer and Technical Architect with 15+ years building Java and Spring-based enterprise systems. I now focus on bringing AI capabilities — LLMs, RAG, MCP, agentic workflows — into production, while mentoring teams and shaping architecture that is both robust and future-ready.

I regularly present on AI and software engineering topics, sharing knowledge and driving technical awareness within the organization.

### **Work Experience**

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2025/06 - ...	Trinidad Wiseman <i>Architect / Lead Software Developer</i>
2024/04 - 2025/05	Crespect <i>Lead Software Architect</i>
2023/02 - 2024/03	Finestmedia AS <i>Architect / Lead Software Developer</i>
2022/11 – 2023/03	Camelot Technologies OÜ <i>Architect / Software Developer</i>
2019/08 – 2023/02	TripleDev OÜ <i>Lead Software Developer</i>
2013/05 – 2019/07	Icefire OÜ <i>Software Developer</i>
2011/06 – 2012/04	flowit OÜ (knowit OÜ) <i>Software Developer</i>
2010/10 – 2011/07	AS SEB Bank <i>Software Developer</i>

### **Education**

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2008 – 2011	TTÜ IT College (Estonian Information Technology College) <i>IT Systems Development</i>
1996 – 2008	Kadriorg German Gymnasium <i>Secondary education</i>

### **Language skills**

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Estonian	native
English	full professional proficiency
German	limited working proficiency

## **Professional Skills**

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- **Programming Languages**
  - Java
  - TypeScript / JavaScript
  - Python
- **Backend frameworks**
  - Spring (Boot 4, Data, Cloud, Security, WebSocket etc)
  - Hibernate
  - Camunda BPMN
- **AI / machine learning**
  - OpenAI API
  - RAG
  - LLMs
  - Agentic workflows
  - MCP
- **Frontend frameworks and libraries**
  - Angular 20
  - React
  - Vue.JS
- **Data & Messaging**
  - PostgreSQL (multi-tenant RLS)
  - Oracle SQL
  - Redis
  - Kafka, RabbitMQ
  - Liquibase, Flyway
- **CI / CD**
  - GitLab, Bitbucket, Jenkins, Gitea
  - Gradle, Maven
- **Testing**
  - JUnit 5, Mockito
  - Testcontainers
  - Test-Driven Development (TDD)
  - JMeter
- **Observability**
  - Datadog
  - ELK stack
  - Prometheus
  - Grafana
- **Cloud & Infrastructure**
  - Docker
  - Kubernetes
  - AWS (IoT, Cognito, MSK, SES, IAM, RDS, ECS, Lambda, CloudFormation, S3, ECR, SNS, AWS Chatbot etc)
- **Tools & Collaboration**
  - SonarQube
  - OpenAPI / Swagger
  - X-Road

## Projects

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- Modernized Estonian Export Portal [2025/06 - ...] - **EXPO** - Trinidad Wiseman

A next-generation national export portal designed to streamline how Estonian companies access international markets. The platform provides unified digital services, export guidance, market information, and tools that support businesses throughout their export journey.

Technical architect and lead full-stack developer supporting the solution architect in designing and core system components. Delivering extensive full-stack development across the platform while guiding backend developers through code reviews, mentoring, and enforcing standards. Collaborating daily with system analysts on system architecture and technical design decisions. Improving and maintaining the CI/CD setup, and developing internal tooling and automation scripts for development and release processes. Designed and implemented AI-powered automated translation for user-generated content. Delivered presentations on AI topics for analysts, developers, project managers, and HR.

*Architect / Lead Software Developer [Spring Boot 4, Java 25, Angular 20, PostgreSQL, Docker, microservices backend architecture, MFE (micro frontends), AI integrations (OpenAI), X-Road, Kubernetes, RabbitMQ]*

- AI-powered legal practice management system with built-in CRM - [2024/04 - 2025/05] - **Crespect**  
<https://crespect.com/>

SaaS cloud application to provide uniquely intelligent AI-powered solution to operate and grow law firm businesses globally.

Driving the development of our all-in-one cloud-based practice management software designed for law firms looking to enhance operational efficiency and business growth. Leveraging cutting-edge technologies, I architect solutions that deliver unique business insights and empower law firms globally to thrive in a competitive market. I lead a dynamic team, fostering innovation to maintain and extend our position as leaders in legal tech solutions.

Responsibilities:

- Leading software architecture decisions and driving strategic system design and integrations
- Strengthening security by implementing OWASP remediation, Static Application Security Testing (SAST), and driving continuous security improvements
- Managing AWS infrastructure, including CI/CD pipelines, IaC, monitoring, cost optimizations, and integrating Datadog for observability with custom span instrumentation
- Driving AI adoption by implementing AI-driven system enhancements and leading workshops on AI trends and development efficiency
- Leading recruitment, hiring, and mentorship to build high-performing development teams
- Overseeing release management, including framework upgrades, dependency updates, versioning, deployments, and production bug resolution
- Optimizing PostgreSQL performance, including query tuning, indexing strategies, and database performance improvements
- Developing internal tools and automation scripts to streamline developer workflows, including secure database access and automated local database restoration

*Lead software architect [Java 21, Spring Boot 3, React 18, TypeScript, AWS (ECS, RDS, S3, CloudFront), PostgreSQL 17 (multi-tenant RLS), microservices architecture, Docker, GitLab CI/CD, Datadog, AI integrations (OpenAI)]*

- State Information System Global Management System [2023/09 - 2024/03] - **RIHAKE** - Finestmedia  
OSS: <https://koodivaramu.eesti.ee/e-gov>

Web application developed by the Estonian Information System Authority, is an institutional data management application aimed at facilitating the description of institutional datasets according to a standard data description.

Mentoring junior and mid-level developers, facilitating their professional growth and ensuring

adherence to coding standards. Conducting code reviews, leading to significant improvements in code quality. Refinement and implementation of efficient work flows, which streamlined development processes, optimized resource utilization, and enhanced productivity across the team. Conducted live presentation for all developers across the corporation on the topic of artificial intelligence.

*Lead developer / Architect [Spring Boot 3, Java 17, Angular 15, PostgreSQL, SOAP, X-Road, Liquibase, Docker, Hazelcast]*

- Consent service [2023/02 - 2023/08] – **Nõusolekuteenus** - Finestmedia  
OSS: <https://koodivaramu.eesti.ee/nousolekuteenus>

Spring project based on micro services created via jHipster for Estonian citizens to manage and issue consents to government for allowing to share personal data with third party service providers.

Tutoring junior developers. Contributed my skills and expertise in improving existing information system and identifying potential areas for enhancement and error reduction and providing possible solutions.

Conducted live presentation for all developers across the corporation on the importance and best practices of writing clean code. Also represented company in TalTech's Võti Tulevikku event.

Assisted the company in completing government procurement test assignments.

*Lead developer / Architect [Spring Boot 2, Java 11, Angular 14, TypeScript, microservices architecture, PostgreSQL, SOAP, X-Road, Docker, Hazelcast]*

- Data tracker [2023/02 - 2023/08] – **Andmejälgija** - Finestmedia  
OSS

Web application with the purpose to provide citizens with a clear overview of the operations performed with their data.

Developing frontend and backend services, acting as intermediaries for queries to various governmental data systems. This facilitates the provision of data usage information to citizens about how government agencies are utilizing their data.

*Lead developer / Architect [Spring Boot 3, Java 17, Angular 14, SOAP, X-Road]*

- Backend Gateway [2022/11 - 2023/03] - **UiBackend** - Camelot Technologies  
Custom Spring proxy application acting as a gateway between VueJS front end application and Java back end application. Application with user registration, authentication and authorization (JWT and 2FA).

Led the design and development of the backend application, overseeing the selection of technologies and successfully delivering the project.

*Architect / Developer [Spring Boot 3, Java 17, PostgreSQL, WebSocket, Prometheus, Grafana, Docker]*

- Target User Module Management System [2021/09 - 2023/02] - **Futugrid** - TripleDev  
<https://futugrid.com>

Fully automated real-time operating system to manage electrical plug-in devices for common households to increase grid energy efficiency and savings.

Architected and developed innovative technical solutions using cutting-edge technologies for the project.

*Developer / Architect [Java 17, Spring Boot 3, microservices architecture, Kafka, AWS (IoT, Cognito, MSK), PostgreSQL, Kubernetes, Docker, Vue.js, TypeScript, Prometheus, Grafana, Zipkin, OpenMUC IEC 60870-5-104]*

- Hansa Product Management System [2021/04 - 2021/06] – **Hansa PMS** - TripleDev  
Backend product management system for garden houses and equipment.

*Developer [Java 15, Spring, PostgreSQL, jQuery]*

- The Health and Well-being Information Systems Center [2019/08 - 2023/02] - **TeIS** - TripleDev  
<https://iseteenindus.ti.ee>  
OSS: <https://koodivaramu.eesti.ee/tehis/teis>

Information system for officials and private persons for work safety information management.

As the lead developer, I collaborated closely with the architect, providing valuable support. I mentored junior and mid-level developers, while working closely with the senior architect to design and develop advanced solutions, including tackling complex challenges.

*Lead Developer [Java 11, Spring, microservices architecture, Camunda, PostgreSQL, RabbitMQ, X-Road, WebSocket, MinIO, Docker, Rancher, Prometheus, Grafana, DigiDoc4j, OPSWAT antivirus integration]*

- Luminor Bank [2019] - Icefire  
File transfer application software development.

*Developer [Java, Spring MVC, jOOQ, SOAP, Thymeleaf, Mockito]*

- Planetway [2019] – **PlanetID** - Icefire  
Mobile authentication software development.

*Developer [Java 11, Spring MVC, RESTful Web Services, QR code, Gradle 5, TDD (Test-driven Development), Pair programming, CI (Continuous Integration), Bitbucket, TSA (Timestamping Authority) integration, JWT, BouncyCastle, Git, Javascript, Thymeleaf, HTML, Scrum]*

- Elisa [2018-2019] – **ITB** - Icefire  
Elisa self-service web application development.

*Developer [Oracle Java 8, Spring MVC, RESTful Web Services, AngularJS, JUnit, Mockito, Apache Tomcat, Gradle, CI (Continuous Integration), Git, MyBatis, Oracle SQL]*

- Estonian Tax and Customs Board [2016/02 - 2018/07] – **TOTS2** - Icefire  
Customs controls web application development

*Developer [Oracle Java 8, Spring (MVC, Boot, Data, Web Services, Mail), Liquibase, Gradle, Freemarker, Docker, Camunda BPM, jQuery, JavaScript, Ajax, Thymeleaf, HTML, Git, Apache FOP, Jenkins, PostgreSQL, Groovy, JUnit, SOAP, WSDL, RESTful Web Services, ReactJS, Hibernate, Apache Tomcat]*

- IT Department of Ministry of the Interior (2014 – 2015) – **ÜHKIS** - Icefire  
Emergency response center web application development

*Developer [Java, Grails, GORM, GSP, Liquibase, Groovy, Hibernate, Ajax, jQuery, JavaScript, PostgreSQL, JSON, HTML, Jenkins, Maven, Git, ActiveMQ]*

- Estonian Tax and Customs Board [2013-2018] - **multiple projects** - Icefire  
Developed and maintained various tax, customs, and compliance web applications including HDR, FIDEK, TSD, NAP, VAT MOSS, E-Maksuamet, E-Ajatamine, INF14 etc.

*Developer [Java, Spring (MVC, Boot, Data, Web Services, Mail), Hibernate, Oracle SQL, PostgreSQL, PL/SQL, Thymeleaf, Freemarker, Velocity, ReactJS, jQuery, JavaScript, Ajax, HTML, JSON, Groovy, Drools, Camunda BPM, Liquibase, Docker, Apache FOP, Apache Tomcat, JUnit, Jenkins, Maven, Gradle, Git, CVS, SOAP, WSDL, RESTful Web Services, ClamAV, Logback]*

- Tre [2011-2012, Sweden] - knowit  
CRM software development  
*Developer [Java, PL/SQL, UNIX, SOAP, Tibco IntegrationManager, Tibco BusinessWorks]*
- SK ID Solutions AS [2011] - **TempelPlus** - knowit  
Automated testing tool development  
*Developer [Java, Junit]*
- AS SEB Bank (2009-2011) - **EIS** - SEB Bank  
System of cost budgeting and monitoring web application development  
*Developer [PL/SQL, Oracle APEX, Javascript, HTML, UML]*

## Additional Training

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- 2010 - ... Devclub  
*Regular software development, architecture, testing and technology seminars*
- 2024 digit.dev  
*Software conference*
- 2024 TTÜ Technopol AI Accelerator  
AI Workshops
- 2023 FooConf Helsinki  
*Software and technology conference*
- Climathon Tallinn  
*24-hour climate hackathon*
- digit.dev  
*Software conference*
- 2019 Agile Saturday XV  
*Conference for agile development*
- Jaana Liigand's communication training  
*Seminar for developing team work*
- 2018 TopConf DevOps  
*Conference for development operations*
- Nordic-Baltic Security Summit  
*Conference of cyber security*
- 2015 TTÜ IT College (Estonian Information Technology College)  
*Test Driven Development [TDD]*
- GeekOut 2015  
*Conference for Java developers*
- 2014 GeekOut 2014  
*Conference for Java developers*
- 2013 TTÜ IT College (Estonian Information Technology College)  
*Java advanced training*
- 2013 BCS Kooolitus  
*Training for integrating with Eesti.ee data sources*
- Clarified Security  
*Advanced web application security training*