

DOCUMENT Curriculum vitae	SECTORS Government · Finance · Energy · Telecom
BASE Tallinn, Estonia	EXPERIENCE 10 years

KARL KADALIPP

SENIOR FULL-STACK JAVA SOFTWARE ENGINEER ■ NOW AT NORTAL AS

Ten years building the software people rely on without thinking about it — Estonia's vehicle and driver registry, the 2021 census platform, nationwide energy metering, the Tax and Customs Board's systems, a bank's credit decisions.

karl.kadalipp@gmail.com +372 5666 0995 linkedin.com/in/karlkadalipp

EDUCATION	BA, IT systems development — Estonian IT College
LANGUAGES	Estonian (native), English (very good), German & Russian (beginner)

01

Experience

6 POSITIONS · ALL FULL-TIME

#	ROLE	ORGANISATION	PERIOD
01	Senior Software Engineer The Tax and Customs Board's data-driven VAT return and reporting system, on an AI-first delivery. <u>DATA-DRIVEN VAT RETURNS</u>	N Nortal AS	Oct 2026 – present

02

Full-Stack Java Software Engineer

Modernisation and rewrite of Swedbank's credit-decisions software.

CREDIT DECISIONS

B Blesens OÜ

Aug 2025 – Jun 2026

11 mos

03

Full-Stack Java Developer

Enterprise systems for Statistics Estonia, the Tax and Customs Board, Inbank and SMIT, delivered through Helmes, Nortal and other partners.

POLICE E-SERVICES

TAX GUARANTEES REGISTER

SME VAT SPECIAL SCHEME

CESOP PAYMENT REPORTING

SMART RENT

EURORA CROSS-BORDER COMPLIANCE

FUEL HANDLING REGISTER

NCTS TRANSIT

2021 NATIONAL CENSUS



DomeStack Ltd

Jan 2021 – Aug 2025

4 yrs 8 mos

04

Full-Stack Java Developer

IoT and eSIM connectivity platform – telecom integrations and the services around them.

ESIM CONNECTIVITY

IoT 1IoT

Jul 2020 – Nov 2020

5 mos

05

Full-Stack Java Developer

Energy-sector software and the high-volume collection, processing and integration of smart-meter data.

NATIONAL ENERGY METERING

ENERGY SELF-SERVICE BACK END



Eesti Energia

Oct 2018 – Apr 2020

1 yr 7 mos

06

Full-Stack Java Developer

Vehicle registration and inspection information systems for the Transport Administration – for officials, inspectors and citizens.

VEHICLE & DRIVER REGISTRY



Finestmedia AS

Dec 2016 – Oct 2018

1 yr 11 mos

01	.NET Developer (Uni internship) ERP ADD-ONS	 McLean & Laneman	Aug 2013 – Nov 2013 4 mos
02	JavaScript Developer STUDY GAMES	 Povi Software OÜ	Apr 2012 – Aug 2012 5 mos

02 Selected work 15 ENTRIES

#	SYSTEM	SCOPE	PERIOD
01	Data-driven VAT returns TAX AND CUSTOMS BOARD NORTAL AS NATIONAL	Building and rolling out the Tax and Customs Board's data-driven VAT return and reporting system — an AI-first delivery on Java 25, Spring Boot 4 and React 19. Java 25 Spring Boot 4 PostgreSQL 17 JDBI Liquibase React 19 TypeScript Monorepo Testcontainers Checkstyle	2026–
02	Credit decisions SWEDBANK · BLESENS OÜ ENTERPRISE	Rewrote Swedbank's ageing credit-decisions software on a current stack — Java 25 and Spring Boot on OpenShift, Oracle beneath, Angular in front, Grafana watching it. OpenShift Java 25 Spring Boot Oracle Hibernate JDBC Angular Grafana	2025–26
03	Police e-services MINISTRY OF THE INTERIOR IT NTRE (SMIT) DOMESTACK NATIONAL	Continued development of the police's ePolitsei and Apollo services — the officer-facing interfaces and the back ends behind them, exchanging data over X-Road v6. Java 8 Java 17 Spring Spring Boot PostgreSQL Liquibase Lombok Docker RabbitMQ X-Road v6	2025

04

Tax guarantees register

TAX AND CUSTOMS BOARD
NORTAL AS • DOMESTACK

NATIONAL

Built the Tax and Customs Board's guarantees system, which brings the management of tax guarantees into one register and keeps it in step with the systems around it.

Java | React | JavaScript | Webpack
PostgreSQL | Tomcat | XML | JSON | YAML
Docker | GitLab CI/CD

2025

05

SME VAT special scheme

TAX AND CUSTOMS BOARD
HELMES AS • DOMESTACK

NATIONAL

Built the EU small-enterprise VAT special scheme (SME) into the Tax and Customs Board's systems — the register, the filings and the exchange with the other member states.

Java | React | JavaScript | Webpack
PostgreSQL | Tomcat | XML | JSON | YAML
Docker | GitLab CI/CD

2024–25

06

CESOP payment reporting

TAX AND CUSTOMS BOARD
HELMES AS • DOMESTACK

NATIONAL

Built Estonia's side of CESOP — the EU's Central Electronic System of Payment information — for the Tax and Customs Board.

Java | React | JavaScript | Webpack
PostgreSQL | Tomcat | XML | JSON | YAML
Docker | GitLab CI/CD

2023–24

07

Smart Rent

INBANK • NODESWAT OÜ
DOMESTACK

ENTERPRISE

Built Inbank's product-rental services on Java 17 and Spring Boot 3 — Kafka between the services, Flyway under them, and a JaCoCo, Checkstyle and SpotBugs gate in front of every release.

Java 17 | Spring Boot 3 | Hibernate
PostgreSQL | Flyway | Kafka | REST | JSON
Jackson | JWT | Docker | Docker Compose
Swagger | Lombok | Apache Commons
Google Guava | JaCoCo | Checkstyle
SpotBugs

2023

08

Eurora cross-border compliance

EURORA SOLUTIONS
PROGMATIC OÜ • DOMESTACK

GLOBAL

Built on Eurora's platform for cross-border e-commerce tax, customs and compliance — the one that automates the duties and declarations behind an international parcel — as Java and Spring microservices on AWS, with Redis and ActiveMQ Artemis.

Java | Spring | AWS | Redis
ActiveMQ / Artemis | PostgreSQL
Microservices

2023

09

Fuel handling register

TAX AND CUSTOMS BOARD
NORTAL AS • DOMESTACK

NATIONAL

Built the Tax and Customs Board's fuel handling register (KKS) — Java 8 and Spring Boot services behind a React front end.

Java 8 | Spring Boot | REST | JSON | React

2023

10

NCTS transit

TAX AND CUSTOMS BOARD
NORTAL AS • DOMESTACK

NATIONAL

Built the processes around NCTS — the EU's New Computerised Transit System, through which goods move across customs borders — for the Tax and Customs Board, in Java 17 and Angular 12.

Java 17 | Angular 12 | PostgreSQL 13
Tomcat 9

2023

11

2021 National Census

STATISTICS ESTONIA
HELMES AS • DOMESTACK

NATIONAL

Built Statistics Estonia's collection platform through the 2021 census — the self-service where people and businesses answer the surveys they are obliged to, and the internal system the agency's staff run them from.

Java 11 | Spring Boot | Angular 11
PostgreSQL | Docker | GitLab CI/CD
Gradle | REST | OAuth 2.0
OpenID Connect | Keycloak | Tomcat

2020–22

12	eSIM connectivity 10T GLOBAL	Built 1oT's telecom integrations and the billing and reporting tools around its IoT platform, delivered GSMA-compliant eSIM services, and led the technical architecture and the development process. Java 8 / 11 Spring Boot Vue.js Docker Gradle REST JMockit PostgreSQL	2020
13	National energy metering ELEKTRILEVI • EESTI ENERGIA NATIONAL	Built Elektrilevi's self-service portal and the high-throughput systems that collect, process and integrate the readings from the smart meters in the field. Java 11 Spring Boot React Kubernetes Docker Elastic Stack Bamboo Gradle REST SOAP JWT JMockit PostgreSQL	2019–20
14	Energy self-service back end EESTI ENERGIA NATIONAL	Developed and maintained the back end of Eesti Energia's customer self-service — Java 8 and Java 6 on Liferay and Oracle, load-tested with Gatling. Java 8 Java 6 Liferay Spring Oracle Gradle Git SVN REST SOAP Gatling	2018–19
15	Vehicle & driver registry TRANSPORT ADMINISTRATION FINESTMEDIA AS NATIONAL	Digitised the Transport Administration's pre-registration vehicle inspection and acquisition-document process, across the systems its officials, the inspectors and citizens use — so the work between the agencies got faster. Java 8 Spring Spring Boot Spring Security Spring Web Services Hibernate MyBatis Oracle PL/SQL PostgreSQL Angular JSF PrimeFaces Aranea JBoss / WildFly X-Road ID-card / Mobile-ID Liquibase Ehcache TestNG Mockito SonarQube Plumb	2016–18

01	ERP add-ons MCLEAN & LANEMAN	Built add-ons and modifications for an enterprise resource planning system, in C#. .NET C# MSSQL	2013
02	Study games POVI SOFTWARE OÜ	Built web-based study games for children — the interfaces and the interactive parts, in JavaScript, HTML and CSS. JavaScript HTML CSS Mercurial	2012

03 Technology stack 3 TIERS

CORE WHAT THE WORK IS MADE OF

LANGUAGES | **Java** | **TypeScript**

BACKEND | **Spring Boot** | **Hibernate ORM** | **Liquibase**

FRONTEND | **Angular** | **React**

DATA | **PostgreSQL** | **Oracle**

INTEGRATION | **X-Road (Estonian e-gov data transfer)** | **REST** | **SOAP**
| **OAuth 2.0**

RUN | **Docker** | **Kubernetes** | **GitLab CI/CD**

STRONG SUBSTANTIAL PROFESSIONAL EXPERIENCE

LANGUAGES | **JavaScript** | **C#** | **Python**

BACKEND | Spring (MVC, Security, Data, Web Services) | JPA | JDBC | JDBI | Flyway
| Jackson | Lombok

FRONTEND | Vue.js | HTML5 | CSS3 | SCSS | Webpack

DATA | PL/SQL | Kafka | RabbitMQ | ActiveMQ / Artemis | Redis | Ehcache

INTEGRATION | JSON | XML / XSD / XSLT | JWT | OpenID Connect | Keycloak
| OpenAPI / Swagger

RUN | OpenShift | Docker Compose | AWS | Tomcat | JBoss / WildFly | Nginx
| Apache HTTP Server

BUILD | Gradle | Maven

TESTING | JUnit | Mockito | Testcontainers | Selenium | JaCoCo | SonarQube
| Checkstyle | SpotBugs

OBSERVABILITY | Grafana | Elastic Stack (Elasticsearch, Kibana)

EARLIER THE REST OF THE RECORD

AngularJS · Node.js · jQuery · jQuery UI · Bootstrap · PrimeFaces · JSF (JavaServer Faces) · JSP · JSTL · Liferay · Nortal Aranea & JRoad · MyBatis · Apache Ant · Apache Ivy · Apache Commons · Google Guava · Gson · MySQL · SQLite · MSSQL · ID-card / Mobile-ID · Postman · SoapUI · TestNG · JMockit · Robot Framework · Gatling · TestLink · PlumbR · APM · Bamboo · SLF4J · Log4j · Logback · Git · SVN · Mercurial · GitHub · GitLab · Bitbucket · IntelliJ IDEA + JRebel · WebStorm · Eclipse · PyCharm · Android Studio · Atlassian JIRA · Atlassian Confluence · CentOS · Figma · Adobe Photoshop · DaVinci Resolve · Scrum · Kanban

04

Background



Military conscription

EDF (HQ & Signal Battalion)

2014 – 2015 · 11 MOS

05

Credentials



Oracle Certified Associate, Java SE 8 Programmer

Oracle

MAY 2018



IT systems development (BA)

Estonian IT College

2011 - 2016



Active member

Estonian Defence League

2010 - 2018



Student

Rocca al Mare School

2000 - 2011



X-Road data services development on the Java platform

Tallinn University of Technology

2017

DRIVING AM, A1, A2, A, B1, B