Spase Markovski

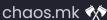
smarkovski@gmail.com

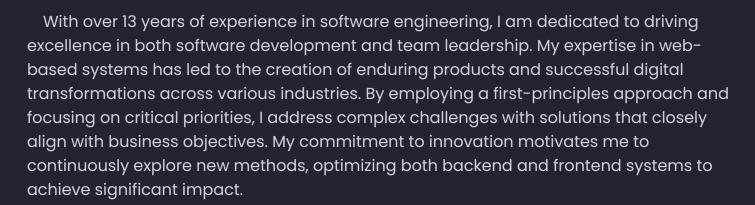
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Skopje, N. Macedonia 🗿

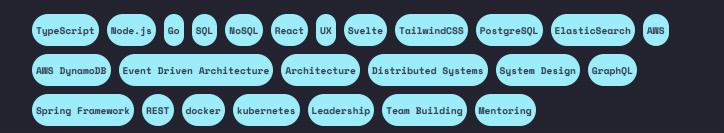
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Skills



Experience

Omnevue

Lead Software Engineer/Engineering Manager



- Led engineering efforts for Omnevue, focusing on the secure and efficient processing of large volumes of accountancy documents (invoices, journal entries, bills) for ESG reporting in compliance with EU regulations.
- Established the initial tech stack, architecture, coding guidelines, deployment pipelines, and observability tools, ensuring continuous improvement and adherence.
- As the sole engineer for the first 6 months, delivered key features including billing, payments, data collection, accountancy integration, data security, reporting, 3rd party API integrations and infrastructure setup.

- Recruited, onboarded, and managed the initial engineering team.
- Developed a merchant categorization methodology based on the Exiobase taxonomy using generative language model AI and ElasticSearch, spanning 16 million merchants.
- Utilized a range of technologies including AWS services (Lambda, S3, EC2), Node.js, TypeScript, and React.
- Implemented infrastructure-as-code and CI/CD pipelines using AWS CDK, AWS Lambda, and GitHub Actions.

Technologies: AWS CDK, AWS Lambda, AWS DynamoDB, AWS S3, AI, ChatGPT, Node.js, TypeScript, GitHub Actions, zod, Open banking, Stripe, Codat, xlsx, React, vuejs

Promotion Digitale (Gesundheitsförderung Schweiz)

Technical Lead

- Apr 2021 Feb 2022
 - Led engineering efforts to digitalize internal and external processes at a Swiss Federal Health institution.
 - Actively contributed to an open-source WYSIWYG editor library (draftjs), crucial for project success.
 - Championed the adoption of HasuraSQL to transform a PostgreSQL database into a GraphQL API. Led database modeling in 3rd normal form and ensured row-level security (RLS) per user.
 - Implemented data entry forms and wizards using React, and mentored new engineers on React and web development best practices.
 - Engineered a Kubernetes cluster for the project and trained the team in its operation and maintenance.

Technologies: React, TypeScript, GraphQL, hasura, urql, styled-components, material-ui, Java, Spring Framework, PostgreSQL, kubernetes, Grafana

Infostore (Netcetera AG)

Technical Lead

- 苗 Aug 2020 Mar 2021
 - Architected a system to display Postgres DB data using metadata and GraphQL introspection schema from Hasura.
 - Pioneered one of the initial Go projects, guiding the team on language idioms and ecosystem best practices.
 - Introduced and guided the team in adopting Svelte as a frontend framework.

- Collaborated on creating a custom DSL for defining screens and displayed data.
- Utilized Docker containers for deploying the Go binary and frontend resources.

Technologies: Svelte, GraphQL, hasura, urql, Go, docker

TREPO

CTO - Chief Technology Officer

苗 Jul 2018 - Apr 2020

- Co-founded a startup providing last-mile delivery solutions for B2B and B2C customers.
- Independently developed the project for the initial months and later managed a team of 5 engineers.
- Addressed routing challenges, including ad-hoc deliveries and dynamic route changes using real-time congestion data and safety rules.
- Implemented binary data parsing for multiple GPS tracking devices.

Technologies: React, TypeScript, styled-components, material-ui, Java, Spring Framework, PostgreSQL, Apache, nginx

KAP (Gesundheitsförderung Schweiz)

Technical Lead

- 📛 Jul 2018 Jul 2020
 - Lead the frontend team of engineers in a project where the main focus was digitalizing the internal processes of a Swiss Health Federal institution.
 - Led the building of various forms, wizards while employing idiomatic form handling best practices and coaching the whole team on them and React.
 - Implemented backend services in Java 10 and Spring Boot 2.0, focusing on the business logic and data access layer.
 - Actively contributed to the react-final-form and material-ui open source projects during the duration of the project

Technologies: React, TypeScript, styled-components, material-ui, axios, Java, Spring Framework, PostgreSQL, traefik, docker

Fred (mkHost)

Software Architect

H Jun 2018 - Dec 2020

- Developed a HTTP REST API to modernize communication using XML abstracting the EPP protocol.
- Implemented duplex TLS socket communication with connection pooling.
- Debugged TLS socket handshake connections, resolved X509 certificate chain issues, and guided the technical team on the other side in fixing them.
- Implemented web scraping to retrieve company EINs from a governmental website lacking an HTTP API.

Technologies: Java, Spring Framework, Spring Boot, PostgreSQL, AWS EC2, AWS S3, nginx, TLS, XML, XML Digital Signing

RISIC

Technical Lead



- Led a team in developing an ML-backed product for processing and classifying high volumes of insurance claims from the United Arab Emirates to detect potential fraud.
- Resolved complex big data challenges, enhancing system scalability and performance.
- Mentored interns in creating a frontend application with interactive data visualization through charts and graphs.
- Architected the system and oversaw the data ingestion process managed by the machine learning team.

Technologies: React, TypeScript, Java, Python, Spring Framework, Spring Boot, Apache, docker, SQL, microservices

Global Financial Planning Platform (UBS)

Technical Lead



- Managed a team of 6 engineers within a global team of 40, developing a full stack web application to forecast individuals' wealth using diverse methodologies.
- Pioneered the adoption of modern tech practices by implementing frameworks like React for frontend development and ensuring seamless data flow from backend systems.
- Wrapped a bank-provided jQuery-based design system into a React component library to ensure a consistent look and feel across the application.
- Oversaw various engineering efforts across streams and collaborated with business analysts and leads to steer the overall project.

Prospect Zone (UBS)

Technical Lead

് Jul 2016 - Feb 2017

- Led a team of engineers in developing a public-facing full-stack application for Swiss users to compare real estate mortgage options.
- Rewrote and isolated significant functionality from existing software while maintaining constant communication with business analysts to ensure accurate implementation of various business rules.
- Ensured support for almost all browsers, including legacy ones, to cater to a large target audience.

Technologies: angularis, Java, Spring Framework, OracleDB

Paymit (Finnova)

Technical Lead

Apr 2016 - Aug 2016

- Three person team focused on a project with 3 month milestone for a proof-of-concept system that will enable money sending between users from the same bank.
- Solo developed the backend API that served web/iOS/android applications.

Technologies: Java, Spring Framework, Spring Boot, PostgreSQL, nginx, openapi

Dimensions (Wüest Partner)

Software Engineer

Apr 2015 - Jun 2016

- Built a custom-tailored full stack application for real estate evaluators in Switzerland and Germany.
- Developed custom Excel-like functionality supporting filtering, formulas, and formatting in the browser, requiring deep expertise in JavaScript, DOM, Virtual Lists, AngularJS internals, and Chrome Profiling.
- Implemented a custom DSL for formula evaluation, enabling seamless computational additions by business analysts.
- Modeled core database entities and implemented multi-tenancy.
- Contributed to migrating from OracleDB to PostgreSQL.

Technologies: angularjs, Java, Spring Framework, Apache, PostgreSQL

Merchant Plug-In (NCA)

Software Engineer

Ct 2012 - May 2020

- Developed an SDK and a full-stack web application (dashboard) for merchants to process transactions with the VISA 3DS 1.0 protocol. The SDK is still responsible for processing millions of transactions per year.
- Engineered and utilized a performance test suite to actively monitor the performance of the SDK during its development with an intent to react quickly to any deterioration of response times.
- Maintained and enhanced the application independently post-development phase.
- Wrote the publicly available docs and worked with customer integration teams to clarify and explain both technical and business concepts.
- Identified critical security vulnerability in Spring framework, leading to credited disclosure at https://spring.io/security/cve-2014-0054.
- Facilitated integration and compliance with payment schemes (MasterCard, Visa, JCB, American Express) following VISA 3DS guidelines.

Technologies: Java, Spring Framework, Spring Boot, JavaScript, Apache, XML, XML Digital Signing, TLS

Education

Bachelor of Science in Software Engineering and Information Technologies

• Ss. Cyril and Methodius University, N. Macedonia | 2012