LUKAS SIMON
SENIOR FULL STACK ENGINEER

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A passionate and creative senior full-stack developer with 8 years of experience in web system architecture and development. Effectively leverage cloud-based technologies, microservice architectures, and event-driven architectures. Confident in scalable, flexible, optimized database design with my broad understanding of various business logic. Uphold high-quality standards through a Test-Driven Development (TDD) approach. Introduce new technologies and address technical risks with strong creative, analytic, and team collaboration.

EXPERIENCE

SENIOR FULL STACK ENGINEER
LogicsHorizon, United Kingdom   **07/2022 - 12/2023**

- Led the implementation of a secure, cost-effective, and scalable **AWS cloud platform** for a **Fin-Tech SaaS App**, resulting in increased operational efficiency.
- Designed and implemented a **microservices-based infrastructure** with **Nest.js, ORM, and GraphQL** and was involved in resolving cross-platform problems utilizing **React Native, React, TypeScript**, and **React Query**.
- Set up a strong **CI/CD** pipeline using **Docker, Kubernetes, Terraform,** and **GitHub Actions**, while integrating **ESLint**, **Prettier**, **Jest**, **Sentry**, and **Railway**.
- Led the development of a **customizable and user-friendly dashboard**, allowing clients to monitor and analyze data in real-time.
- Integrated **AWS Lambda-based serverless functions** with our microservices architecture, enabling **real-time analytics and reporting**, which led to data-driven decision-making and improved customer experiences.
- Designed and built a **robust notification system** using Amazon **SNS** and **SQS**, significantly improving system reliability and minimizing downtime to ensure uninterrupted communication for users.
- Utilized **OAuth 2.0** and **OpenID Connect** in a **large-scale SaaS application**, improving user experience by enabling seamless **Single Sign-On** (SSO) across multiple interconnected services.
- Implemented a **dynamic load balancing strategy** using **Nginx**, resulting in a 60% reduction in server over-provisioning.
- Mentored junior developers through **code review** and **onboarding projects**.
- Collaborated effectively with **cross-functional teams**, achieving a 95% customer satisfaction rate.

FULL STACK ENGINEER
Cumul, Belgium   **06/2020 - 06/2022**

- Developed and maintained **EdTech SaaS Platform on Google Cloud** utilizing **JavaScript, TypeScript, React, Next.js, Redux, React Query, Remix, Vue.js, Pinia, NodeJS, NestJS,** and **GraphQL.**
- Contributed to the development of an advanced **Fintech SaaS solution**, utilizing **web3.js** and **ethers.js** for **cryptocurrency** wallet integration and **smart contract** functionality.
- Engineered a real-time search engine by integrating **Kafka** and **Elasticsearch**, empowering teachers and students to retrieve relevant educational content quickly, resulting in a 20% increase in user engagement.
- Successfully completed the migration of a legacy **Angular** codebase to **React**, resulting in a more efficient and scalable software solution.

- Implemented a **microservices architecture on the front end** as well as the back end, and **SSR** using Next.js.
- Transformed some features into a microservices architecture, achieving an average response time of 200 ms.
- Designed and implemented a **robust job queue system** using **BullMQ** to automate critical tasks such as information collection(scrapping), database backups, and sitemap generation.
- Implemented server-side caching using **Redis** to reduce data retrieval time.
- Utilized **Node.js, ORM, PostgreSQL**, and **MongoDB** to develop and effectively manage robust database systems.
- Optimized database queries in a large-scale application by utilizing **indexing**, **query optimization** techniques, and proper **denormalization**.

JUNIOR FULL STACK DEVELOPER

Guardsquare, Belgium   **07/2016 - 04/2020**

- Built cross-browser compatible, responsive SPAs using **React, Vue, Redux, Vuex, TypeScript, and Node.js** to provide seamless user experiences.
- Enhanced an e-commerce site's search capabilities, leveraging **Algolia's** technology to provide users with fast and relevant search results.
- Implemented design patterns, and created reusable components, optimized frontend through **code splitting technique** by **Webpack**, **caching strategies**.
- Successfully transitioned the current codebase, including legacy **jQuery plugins**, into modern **ES6+ JavaScript** components and libraries.
- Collaborated closely with design teams, translating **Figma** designs or **PSD** designs into pixel-perfect, **responsive web** interfaces.
- Implemented **TDD** practices, leading to a 50% decrease in defect rates, enhanced code quality, and strengthened team collaboration and knowledge exchange.
- Created **REST API** by using **Node.js, Express.js**, and **Laravel** to create a server environment.
- Boosted system performance through the development of a well-structured **database schema** and query optimization.
- Participated in **Agile methodology** for application development and used **JIRA** as a project management tool.

SKILLS

- **Programming Languages**: JavaScript(ES6+), TypeScript, Python, Rust, PHP, GraphQL
- **Front-end Technologies**: HTML5, CSS3, Tailwind CSS, SASS, React, Next.js, React Native, Angular, Vue.js, Redux, Vuex, Pinia, D3.js, charts.js, Webpack, Vite.
- **Back-end Technologies**: Node.js, Express.js, Nest.js, Laravel, Kafka, BullMQ, ElasticSearch, Microservices architecture, REST API, ORM.
- **Blockchain Technologies**: Solidity, Web3.js, Ethers.js
- **Databases**: MySQL, MongoDB, PostgreSQL, DynamoDB, Redis
- **Cloud Platforms**: AWS (Amazon Web Services), Google Cloud, Heroku, Vercel, Railway, Algolia
- **Version Control**: Git, BitBucket,
- **Testing Frameworks**: Jest, Cypress
- **Deployment**: Docker, Kubernetes
- **Others**: Agile Methodologies, Jira, Sentry, Terraform, Turbo, Nginx, TDD, DDD.

EDUCATION

UNIVERSITY OF ANTWERP | 2013- 2016

Bachelor's degree of Computer Science