

Mats Jørgen Skaslien

Software engineer

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Software engineer with an M.Sc. in computer science. I have experience working with a wide range of technologies both front- and backend in small and large teams. I value modular code and continuous delivery. In my spare time I develop games, bake bread and run.

Skills

- Node.js + TypeScript
- React + Next.js
- Go
- Java
- Python
- Docker
- Kubernetes
- Terraform
- RabbitMQ/ Kafka/ SQS

Professional experience

Amedia - Fullstack/Backend

Aug '22 - Dec '23

Worked mainly as a backend developer in a team of 4 to execute a backend re-write for the sports streaming platform Direktesport, delivering continuously and meeting critical deadlines.

Developed a stream provisioning system using **Node.js** and **TypeScript**, simplifying broadcast scheduling for journalists by bridging **Sanity** with our online video platform. Worked with event-driven micro services using **AWS SQS** and **Apache Kafka**. Built a query service API using **OpenSearch**. Authored frontend features using **Svelte** and **SvelteKit**, including UI implementations and a streaming video upload web worker, enabling journalists to replace videos on our OVP.

Led development of a VOD management microservice, integrating diverse video sources and synchronising with multiple platforms. Additionally, maintained and developed **Java** apps, managed CI/CD via **Github Actions** and **Docker**, and took on responsibilities for **AWS** integrations using **Terraform**. Utilised tools like **Kubernetes**, **ArgoCD**, **Kibana**, and **Prometheus** for system monitoring and management.

No Isolation - Backend

Apr '22 - Aug '22

Worked on extensive refactoring and new microservice developments in the No Isolation backend working in **Go**, while serving upwards of 60K active monthly users.

Planned, organised and oversaw the summer internship at the client.

Norwegian Digitalisation Agency - Fullstack

Sep '20 - Apr '22

Modernised and rewrote microservices from **Java** to **Kotlin** with **Spring Boot**, improved search performance and set up "search as you type" using **ElasticSearch**, and wrote a **Python** library parsing RDF to JSON-LD. Worked with event-driven micro services using **Rabbit MQ**.

Actively maintained and developed front-end systems using **TypeScript** and **React**, working closely with designers. Greatly improved page performance by transitioning to server-side rendering using **Next.js** on common pages.

Kaupang Krypto - Backend (part-time)

Apr '18 - Dec '19

Worked on establishing the backend, focusing on automating cryptocurrency transactions using **Node.js**. Also worked on the frontend, implementing the new site design.

Vipps - Frontend (internship)

Jun - Aug '19

Developed the Vipps Developer documentation in a cross-functional team, automatically presenting up-to-date information for users of the Vipps APIs using **TypeScript** and **React**.

Nordic Trustee - ML (internship)

Jun - Aug '18

Implemented a complete pipeline for extracting textual information from unstructured PDFs using machine learning and natural language processing in a **Python** script. Also aided frontend development in **React**.

Achievements

1st place and "Best Solution to Real World Problem"

2018

NEM Global Hackathon

Developed a chatbot for Facebook messenger that connected to users' cryptocurrency wallets, allowing them to send cryptocurrency to friends using natural language interactions. Implemented using **Node.js** and **Javascript**.

Education

Master of Science (Sivilingeniør) in Computer Science

2015 - 2020

Norwegian University Of Science and Technology

Specialized in database and search technology, my Master's thesis focused on developing a search engine for the Semantic Web using **React** with **TypeScript** for the frontend and **Python** for the backend. I also set up and hosted an **ElasticSearch** cluster for full text search and "search as you type" functionality. The goal was to improve usability in semantic web search tools, so design sprints and usability testing were conducted throughout the project.

In addition to my studies at the Norwegian University of Science and Technology, I spent a year at TU Wien during my exchange and two months at TU Graz while writing my thesis.

Etcetera

- Native Norwegian speaker
- Fluent in English
- Certified at level B 1.2 in German
- European driving license class B.

