

TOOMAS OOSALU

SENIOR FULL STACK SOFTWARE ENGINEER

DETAILS

EMAIL

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PHONE

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LINKS

[LINKEDIN](#)

TECHNICAL SKILLS

Node.js / JavaScript / TypeScript

React

Solidity, Web3

SQL (MySQL, PostgreSQL)

NoSQL (DynamoDB, MongoDB)

Timeseries (TimescaleDB, InfluxDB)

AWS (Lambda, DynamoDB, CW, Kinesis, API Gateway, S3, IAM etc)

CI/CD & IaC (CircleCI, Github Actions, Terraform, CloudFormation etc)

Testing (unit tests, end-to-end, integration etc)

Streaming (Flink, Kinesis, Kafka)

REST, GraphQL, RPCs

CSS / Less.js / Tailwind

Agile (Scrum, Kanban)

Python, Java, PHP, Rust

Git, Github

LANGUAGES

ESTONIAN

★★★★★

ENGLISH

★★★★★

HOBBIES

CALISTHENICS

COOKING

E-SPORTS

PROFILE

Solution-driven and customer-orientated Software Engineer who excels in a collaborative work environment and builds reliable, scalable, and easy-to-use products. I have more than 8 years of experience designing and developing full-stack applications and infrastructure. I own my responsibilities and I do not shy away from new ones while trying to have fun on the way.

EMPLOYMENT HISTORY

Senior Software Engineer, Blocktorch

March 2023 - Present

Responsibilities

- Building scalable backend infrastructure for a cross-chain monitoring solution. Data ingestion from various blockchains; data processing to extract logs, metrics, and traces; alerting and monitoring etc.
- Taking ownership of new features from design to implementation.
- Focusing on code quality and efficient development processes.
- Learning about the Web3 ecosystem and trying to identify solvable problems for the developers in this space.
- Creating and managing cloud infrastructure running on Kubernetes.

Key achievements

- Built a custom project-based authentication flow using Supabase Auth. It also included a system of API keys.
- Developed a feature with an SDK to catch and analyze client-side errors when interacting with the blockchain.
- Designed and implemented a metrics pipeline using TimescaleDB. Everything from reading the blockchain data, extracting and saving metrics from it, and reading it in the UI.
- Transaction explorer - built a public feature of Blocktorch, similar to Etherscan, but better. It was featured in an Alchemy course focused on Account Abstraction.
- Created and enforced code style rules and best practices with the team to improve our workflow.
- As an engineer in a very early-stage start-up, I learned to be extra fast, cut necessary corners, and be efficient in testing new ideas.

Senior Full Stack Software Engineer, Dashbird

February 2020 - March 2023

Responsibilities

- Building scalable and reliable backend microservices for all parts of the product. Everything from account management to high volume log ingestion, monitoring for the customers' AWS infrastructure, and analytics. Microservices were mainly written in NodeJS / Typescript.

- Often leading features from start to finish. This includes research, planning, development, and deployment.
- Developing the React front-end application.
- Creating and maintaining cloud infrastructure using IaC tools like Terraform (Terragrunt) and CloudFormation.
- Enforcing good development practices in the engineering team. E.g high test coverage, code reviews, better bug monitoring, Scrum implementation.
- Working with the team to analyze our work processes and improve them constantly.

Key achievements

- Built the company's billing system and Stripe integration from the ground up.
- Lead several new features, e.g. logs search, AppSync logs ingestion, automated infrastructure insights etc.
- Built an admin panel for internal use.
- Many high-impact code and infrastructure improvements. For example, reduced our Lambda costs by up to 30% by removing redundant executions. In another case, took the initiative to reduce a microservice's error rate by more than 1000%.
- Completed an AWS certification and learned to use a large number of AWS services.
- Improved my teamwork skills and my ability to write code that is reliable and scalable.

Co-Founder, MurAll

December 2019 - Present

MurAll is a collaborative canvas allowing artists worldwide to paint onto an ever evolving piece of art. Artwork is stored on-chain and sent as an NFT to the creator.

Responsibilities

- Building the backend microservices for processing NFT images and APIs for the MurAll application.
- Developing the React UI for the application.
- Everything from development to marketing and building the community

Key achievements

- Co-created a unique way to store image data on the Ethereum blockchain for NFTs.
- Successfully launched a product that closely follows the web3 ethos and obtained hundreds of collaborators and over 10K token holders.

Software Developer, Lumav Commerce

February 2016 - February 2020

Responsibilities

- Building e-commerce sites and modules on Magento in PHP / JavaScript
- Integrating various 3rd party APIs (warehouse management systems, payment and shipping processors)

Key achievements

- I developed the Pakendikeskus.ee website, which won the award for the most user-friendly website in the Baltics
- Passed the Magento 2 Certified Professional Developer exam and was one of the first developers in Estonia to do so.

EDUCATION

Computer Security and Resilience MSc, Newcastle University

September 2018 - September 2019

Graduated with a distinction

Informatics B.S.E, Tallinn University of Technology

September 2014 - June 2017