MOHAMMAD SADEGH KHOEINI

Senior Software Engineer @ Spotify

📍 Stockholm, Sweden   📞 +46 72 169 7134
✉ mohammadk@spotify.com   in mohammad-sadegh-khoeini-b6779956
○ github.com/mkhoeini   ⟩ stackoverflow.com/users/774896

HIGHLIGHTS

Software engineering leader with 15+ years of experience. Technical co-founder. CTO. VP of Technology. Proficient in multiple tech stacks including Backend (Java, Python), Frontend (TypeScript, React), And data engineering. Proven track record of continuous improvement and collaboration using agile methodologies.

LATEST PROFESSIOINAL EXPERIENCE

Senior Software Engineer   (5 years) December 2019 – Present 📅
Spotify   Stockholm, Sweden 📍

I joined Spotify in 2019 as a consultant and after a few months transitioned to a full-time employee. My mission was to mentor and lead a team of engineers in replacing a legacy admin dashboard with new technologies while modernizing and innovating the product. I successfully taught TypeScript and React to the team while creating a new microservice-based architecture using async Python. We delivered a product that has been in successful use and continuous development for close to six years, with virtually no tech-related incidents. During my tenure with the team, I was responsible for:

- Defining, prioritizing, and leading tech initiatives.
- Creating a collaborative setup and running tech retrospectives to reduce technical debt and maintain high-quality services with low maintenance effort.
- Leading and educating the team on the importance of SLIs and SLOs for reliability and quality.
- Implementing our first SLOs and establishing a weekly meeting to review our SLOs and other reliability-related dashboards, fostering a culture of continuous improvement.

Before moving on to my next stop at Spotify, I was responsible for onboarding and mentoring the new team replacing us, ensuring their success. My next journey at Spotify involved transforming the Customer Support tooling Product Area into a platform. I had the privilege of leading the effort to define and implement a new product as the first successful example of a platform for our product area. I was responsible for:

- Leading a team of senior engineers in an RFC-driven approach.
- Establishing close relationships with stakeholders and designers to identify needs, negotiate requirements, and timelines, define roadmaps, and provide accountability for on-time delivery while progress through different MVP phases to launch a full product.

After leading the initial definition, design, and launch of the product, I took ownership of the frontend component and mentored my team in frontend technologies. Led an initiative to reduce the number of PagerDuty alerts from our legacy systems by implementing a data-driven approach. Guided the team in improving processes and enhancing our quality culture by conducting post-mortems for incidents and reducing alert noise. Successfully reduced PagerDuty alerts by over 80%.

My latest focus is on the reliability working group of our product area, of which I am a founding member. Our first initiative, which has become a product area-wide effort with TSG approval, was to generate our first-ever monthly availability report for our product area.

Top Skills

Leadership & Soft Skills

Cross Functional Collaboration • Effective Communication • Data Driven Decision Making • Technical Excelence & Innovation • Mentorship & Growth • Sustainable Software Development

Methodologies

Scrum • Kanban • Agile • System Design • Algorithms and Datastructures • TDD • BDD • OOP • FP • SOLID

Backend

Java • Python • Ruby • Elixir • Go • NodeJs • ExpressJs • GCP • pub/sub • bigtable • GKE • PostgreSQL • Redis • gRPC

Frontend

Javascript • Typescript • React • NextJs • HTML • CSS • SASS • CSS in JS • CSS Modules • Atomic CSS • Service Workers • Progressive Web App (PWA)

Tools

Docker • K8s • CI/CD • Bash • Linux • NGINX • Webpack • Babel • NPM • Yarn • Jest • Cypress • Git

EDUCATION

🎓 Master of Science in Computer Science
(Dropped out) Sharif University of Technology 2014 – 2016

🎓 Bachelor of Science in Applied Mathematics
Kharazmi University 2007 – 2011

FORMER PROFESSIONAL EXPERIENCE

Consult Software Engineer
JustTeck

I joined as a SWE Consultant and got promoted to an Interim CTO. During this period, I had two assignments: first with a small startup named Sqore, then with Spotify. At the same time, I was the Interim CTO of JustTech.

Interim CT
My responsibilities included attending board meetings, overseeing the hiring process, managing employee departures, and mentoring staff among other things.

Sqore, SSWE Consult
I was part of a three-engineer team managing substantial operations. We utilized an in-house Kubernetes cluster. The tech stack comprised of Ruby on Rails, TypeScript, React, PostgreSQL, AirTable, and Elixir - some of which I introduced. Our tech supported product development, marketing, analytics, and various technical requirements. The product served numerous global universities as clients and millions of students as users. Our products were crucial for customer support, marketing, and analytics operations.

Freelance Software Developer
Various Projects

I undertook various projects in this period as a freelancer. Notable among these was the development of a scientific library in Crystal Programming Language, and a project involved the rewrite of a web application, migrating from a React/Redux/REST architecture to a new stack using ReasonML and GraphQL.

CTO & Agile Coach
Abgostaran

A company contracted by the Ministry of Agriculture. My role was shaping the technological direction and team composition. My other responsibilities included include serving as an Agile Coach, creating a culture of iterative development and continuous improvement. Key aspects of my role included:
* Technology Selection: Microsoft SharePoint as our primary backend,

automation platform, document management, and workflow automation.
* Custom Frontend Development: Created a bespoke frontend using Vue.js and Vuex for

state management.
* Backend Integration: Implemented a proxy server from scratch in C# to enable

communication between the vue.js frontend and the SharePoint backend.
* Talent Acquisition: hiring skilled developers, building a high-performing team

capable of executing our technological vision.

Senior Consultant
IranTIP

As a key member of a highly skilled four-developer team, I helped shaping the architecture and implementing the complete frontend structure of the website. My primary contributions included:
* Frontend Architecture: React integrated with MobX for efficient state management.
* Development Environment: Configured Webpack for module bundling and TypeScript for

enhanced code reliability and maintainability.
* DevOps Implementation: Set up GitLab instance for version control and implemented

CI/CD pipelines to streamline the development process.

FORMER PROFESSIONAL EXPERIENCE

VP of Technology at *Intelligent Information Solutions Center (IIS)* Jan 2016 – Jun 2017 🗓

I implemented a critical subsystem for the nationwide portal of the Ministry of Education. Led the frontend development, implemented Drag and Drop interface. I built a custom framework inspired by React and Angular.

CTO & Co-founder at *Chejoori* May 2016 – Mar 2017 🗓

Engineered a robust mobile app using React Native, Developed an interactive chatbot for the Telegram platform, Architected and implemented a scalable infrastructure for our services based on Docker.

CTO & Co-founder at *Kelasi* Apr 2013 – Jan 2016 🗓

Implemented a backend based on Ruby on Rails, adopting a microservice architecture to ensure scalability and maintainability. Utilized Docker for containerization. Built a frontend using ClojureScript and React,

Web Developer & Designer at *Student Help Center* 2012 – 2013 🗓

Engineered a complete website from conception to deployment leveraging Drupal. Utilized PHP to develop bespoke features, tailoring the site to meet the specific requirements of the Student Help Center. Implemented responsive UI using jQuery.

Web Developer, Freelancer, & Consultant at *Various Places* 2012 – 2013 🗓

During this period, I engaged in diverse projects across multiple domains. Key Projects and Achievements:
- Developed a desktop application for restaurant management and accounting using Python and Qt. Later reimplemented the application using JavaScript and Node-webkit.
- Engineered a desktop application using C++ and GTK, focused on dynamic

programming algorithms.
- Created a ground-up, customizable Content Management System primarily targeted at

universities.
- Founded a web design firm leveraging cutting-edge technologies.
- Co-founded a startup to implement a local map service for finding nearby businesses.