

# Ramin Rezaei

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## Summary

**Senior Software Engineer** with **7+ years of experience** building **scalable web applications** and **distributed systems**. Strong in full-stack development with **JavaScript, TypeScript, React**, and backend technologies including **Python, Node.js, Java** and **Kotlin**, with a focus on designing high-performance, reliable systems at scale.

Recently exploring **AI-native systems** and **LLM-powered workflows**, with hands-on experience in **building intelligent features** and experimenting with **machine learning** and **data-driven solutions**.

Passionate about system design, developer platforms, and solving complex problems through clean, maintainable architectures.

## Skills

- **Programming Languages:** JavaScript, TypeScript, Python, Java, Kotlin
- **Frameworks & Technologies:** NestJs, Node.js, React, Spring, REST APIs, Microservices
- **Databases:** SQL (MySQL), NoSQL (MongoDB), Firebase DB, Google Cloud Platform For DB
- **Systems & Cloud:** Distributed Systems, System Design, Kubernetes (k8s), Google Cloud Platform (GCP), Amazon Web Services (AWS)
- **Testing & Tools:** Data Structures & Algorithms, End-to-End testing (E2E), AB Testing, Git, CI/CD, Docker, Sentry, DataDog, Grafana, VPNs

## Experience

### Software Engineer III

[Sinch](#)

Malmö, Sweden

05/2025 - Now

- Led development of **MCP** for the Account & Access domain, integrating with multiple internal tools and **lovable** (our partnership), and winning internal engineering competition.
- Led end-to-end **E2E testing** initiative and observability dashboards using **Grafana** with **Prometheus data**, improving system visibility and reliability.
- Contributed to **BFF services using Kotlin**, integrating with **large-scale microservices** in a **distributed architecture**.
- **Improved our dashboards performance** by **optimizing frontend** code and reducing system overhead and **caching and streaming data** on our backend API.
- Enhanced frontend performance and **Lighthouse** scores across projects and built and **maintained shared UI libraries** and packages.
- Worked within a **large-scale micro-frontend** architecture (100+ micro-frontends).
- Designed and maintained **CI/CD** pipelines for automated **testing and deployment workflows**.
- Developed **Helm charts** and managed deployments on **Kubernetes clusters**.
- Worked with **service mesh (Istio)**, **load balancing**, and scalable infrastructure patterns, and **Kafka**.

### Senior Frontend Engineer

[Boozt](#)

Malmö, Sweden

08/2023 - 04/2025

- Built and scaled a **CMS platform** for **generating dynamic web pages**, promotions, and campaign pages for **17 countries**, enabling seamless integration with the mobile app and eliminating the need for updates by supporting all web elements.
- Built a **translation service** using **Google AI tools** to **localize CMS content** for multiple stores across different languages automatically
- **Improved performance** by optimizing data structures and eliminating redundant computations.
- Designed an internal asset management system using **Google Cloud and Node.js backend API**, reducing dependency on external services.
- Developed serverless solutions with **GCP Cloud Functions**, reducing operational overhead by around 10%, and implemented an automation system for capturing our changes on data and triggers other jobs.
- Led **migration to React and TypeScript**, improving performance and maintainability. **Optimized frontend architecture** to reduce re-renders and improve load times and user experience.
- Contributed to **CI/CD**, code reviews, and **automated testing (unit, integration, E2E)**
- Built an **ML-powered image processing system** using **Google tools and tensorflow.js** to classify and cluster images for CMS, and automatically remove backgrounds for easier content usage.

### Software Engineer - Senior Frontend Engineer

[Digikala](#)

Tehran, Iran

08/2020 - 08/2023

- Rebuilt two **large-scale e-commerce platforms**, using React, Next.js, and TypeScript in agile teams. These platforms had **more than 40 million active users and 12 million unique visits per day**. I spent about one and a half years on the rebuilding process and another one and a half years on maintenance and improvements.
- Led campaign team for 1 year and developed a **dynamic landing page system** with 30+ reusable modules, reducing development time for campaigns.
- Implemented analytics and experimentation systems (**Google Analytics, A/B testing**), running 20+ experiments to improve user behavior insights
- **Improved backend performance** by **optimizing APIs and database queries**, reducing response time by 10% and query load by 5%
- Contributed to **micro-frontend architecture using Nx** and worked within a **large PHP monorepo (Symfony)**
- Built and maintained automated testing pipelines (Jest, Cypress), improving code quality and reliability

## Software Engineer - Frontend Team Lead

[Snapp, SnappCarFix](#)

Isfahan, Iran 04/2019 - 08/2020

- Led and **mentored a team of 5+ engineers**, driving delivery of cross-functional projects
- Migrated legacy WordPress platform to a modern React-based architecture, significantly improving user experience
- Built reusable **component library**, reducing development time and project setup by 40%
- Improved performance by optimizing frontend features, reducing page load time by up to 20%

## Software Engineer

[Self-Employed · Freelance](#)

Isfahan, Iran 01/2019 - 01/2020

- Led the development of several products, from identifying system requirements and partner dependencies to workload balancing, software implementation, engineering, testing, and configuring metrics, alarms, monitors, and dashboards.
- Designed and implemented scalable RESTful APIs using Python (Django) and PHP (Laravel) for managing proprietary licenses, handling peak loads of 500 requests per second, and ensuring 99.9% uptime.

## Personal Projects

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### Falcon AI Platform - AI Drone

- Designed and built an **AI-powered autonomous drone system** with **real-time video/audio streaming** and intelligent flight control.
- Implemented **low-latency (<500ms) real-time communication using WebRTC** for bidirectional video and audio streaming between drone and backend services.
- Developed an **AI-driven navigation system using YOLO-based object detection** for obstacle avoidance and autonomous landing.
- Built a distributed architecture where a Raspberry Pi onboard the drone streams data to backend services for real-time processing and decision-making. **(6 services are working on Raspberry Pi and 8 services on the server)**
- Designed a **high-performance frame processing pipeline** using message queue systems to deliver near real-time inference and control signals.
- Implemented secure communication between services using **token-based authentication** and **VPN networking**.
- Built **monitoring and observability systems** using **Grafana** to track system performance, latency, and reliability
- Architected the system for scalability and modularity, separating streaming, inference, and control services.

## Education

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### Bachelor's degree in

[Azad University \(IAUN\)](#)

Isfahan, Iran 11/2017 - 11/2021

### Computer Software Engineering

- Conducted research on user behavior and UI optimization.
- Teaching Assistant for courses in Graphic Design and Database Systems.

## Others

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- **1st Place, Code in the Dark Competition – Demonstrated strong front-end skills under time pressure (Sweden, 11/2024)**
- **Machine Learning in JavaScript (TensorFlow.js), Frontend Masters (12/2024)**

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