

Aryan Ebrahimpour

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PROFESSIONAL SUMMARY

Experienced Software & Site Reliability Engineer with a strong background in Cloud-native systems, Kubernetes, and DevOps. Proven leadership as Tech Lead managing 10+ engineers. Passionate about building scalable platforms, contributing to open source, and tech talks (more info at avestura.dev/talks)

WORK EXPERIENCE

Tech Lead

Nov 2024 — Present

SystemGroup

Tehran, Iran

I have established the AI Dev Empowerment Team (also known as the Engineering Productivity team) within the System Group to increase productivity across development teams. In this team, we have developed AI agents and sub-agents using LLMs and LangChain for tasks such as Code Reviewing an enormous monorepo. To achieve this, we have semantically indexed the codebase and launched multiple MCP servers, enabling our custom models to access and understand the organization's internal data. We have developed and launched our in-house MyAPI platform, enabling every engineer to create a personalized API key for accessing cloud and local AI models. Our work extended beyond software development and building custom Apache DevLake dashboards; we also launched a learning platform to deepen understanding of emerging AI technologies and delivered presentations on niche AI topics, including live-coding sessions.

Tech Lead

Mar 2024 — Nov 2024

Abramad (A member of SystemGroup)

Tehran, Iran

- Led a cross-functional team of 10+ engineers in the design and development of production-ready Cloud infrastructure features.
- From zero users to more than 2000 users and 500 businesses in only 15 months.
- Actively contributed to and oversaw the implementation of key services, including: Virtual Private Cloud (VM provisioning, IP/firewall management, snapshots, backups), Cloud Storage (Web-based S3 file browser and credential management), Cloud Domain and DNS record management, Financial Platform (PAYG pricing, cloud calculator, wallet management, invoicing), Admin Panel (internal services for cloud administrators and the support team), monitoring & observability, and technical documentation.
- Collaborated closely with engineers to architect solutions, perform code reviews, and ensure high standards across delivery.
- Promoted a collaborative engineering culture while driving strategic decisions across the stack.
- Contributed to hiring, mentoring, and creating a high-performance engineering team

DevOps Team Lead

Aug 2021 — Mar 2024

SystemGroup

Tehran, Iran

- Designed and developed a Kubernetes-based Tenant Manager, enabling lifecycle management (provisioning, updates, monitoring) for thousands of tenant environments and their associated pods/containers. Tenant manager turned into the standard solution of shipping cloud software across the company.
- Battle-tested against over 3600 pods.
- Led the DevOps team responsible for infrastructure automation and scalability of ERP systems, for both large enterprises and SMEs.
- Implemented an automated, configurable Point-in-Time Recovery (PITR) backup service for PostgreSQL, improving data resilience and recovery capabilities.
- Ensured high availability, observability, and reduced downtime and deployment issues by implementing standardized CI/CD pipelines.
- Collaborated with development teams to improve the performance of deployment pipelines and enforce best practices across cloud-native services.

Software Engineer

Aug 2019 — Aug 2021

SystemGroup

Tehran, Iran

- Contributed to the development of a custom Continuous Testing framework called [SG.CodeCoverage](#)

- Redesigned SystemGroup's Test Framework using Cypress API, reduced test execution time of 15000 E2E tests from weeks to hours
- Developed a feature-rich Azure DevOps extension for streamlined internal testing and monitoring.
- Created a fast coverage calculator with a graphical web and desktop dashboard
- Contributed to the microservice architecture design and development of the cloud-native services of the company

Software Engineer

2016 — 2018

HOMATEC

Tehran, Iran

- Developed and delivered industrial-grade applications such as a cloud-based file storage platform, and an enterprise automation desktop application.

PERSONAL PROJECTS & OPENSOURCE

My Personal Website (avestura.dev) May 2021 — Present

EyesGuard (github.com/avestura-dev/EyesGuard) May 2017 — Present

Many other OpenSource projects Nov 2018 — Present

- I have created and contributed to many projects over the past few years. You can have access to a handful of them using my [github source projects](#), [personal projects](#) webpage, and my [open-source listing](#)

SKILLS

- **Languages:** TypeScript/JavaScript, Go, C#, F#, Bash, PowerShell
- **FrontEnd:** HTML/CSS, React, NextJS, Vue, Nuxt
- **Cloud & DevOps:** Docker, Kubernetes, Caddy, Linux, Helm, ArgoCD, OpenStack, Network Concepts (HTTP, DNS, ICMP, ARP, etc)
- **Tools & Other:** SQL, Git, Technical Writing, AutoHotkey Scripting, Electronics (Arduino and ESP32)

You can read more about the details of the skills listed above at avestura.dev/resume.

EDUCATION

Iran University of Science & Technology

Tehran, Iran

Master's degree, Computer Engineering

2019 — 2022

- Cumulative GPA: 4.0/4.0 (90.8%)
- Published a paper on scheduling algorithms in serverless platforms (The Journal of Supercomputing)

University of Guilan

Rasht, Iran

Bachelor's degree, Computer Engineering

2015 — 2019

- Cumulative GPA: 4.0/4.0 (95.9%) | Ranked 2nd among all of the students.
- Member of academic forum; gave technical talks on DevOps, Linux vs Windows kernel differences, etc.

PUBLICATIONS

A heuristic-based package-aware function scheduling approach for creating a trade-off between cold-start time and cost in FaaS computing environments March 7 2023

Springer • The Journal of Supercomputing • [Read Paper](#)

BLOG HIGHLIGHTS

More at avestura.dev/blog 2015 — Present

I write in-depth technical blogs on Git (*Creating a Git Commit: The Hard Way*), databases (*Explaining the PostgreSQL Meme*), programming languages (*Problems of C, and How Zig Addresses Them*), cryptography (*Understanding Zero-Knowledge Proofs*), and more.

CERTIFICATES

IELTS for UKVI (SELT) Academic - Band Score 7.5, Form Number: 25IR504939EBRH120A November 2025

Social Network Analysis, University of California, Davis (coursera.org/verify/F44QT4ETVENC) June 2020