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   Mar 2024 — Present
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.
- Actively contributed to and oversaw the implementation of key services, including:
  - Virtual Private Cloud: VM provisioning, IP/firewall management, snapshots, backups.
  - Cloud Storage (S3): Web-based file browser, S3 credential management.
  - Cloud DNS: Domain and DNS record management.
  - Financial Platform: PAYG pricing, cost calculator, wallet management, invoicing.
  - Admin Panel: Internal services for cloud administrators.
  - Monitoring & Documentation: Infrastructure observability and product 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.
- 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
- Became the system administrator of multiple linux servers in the company
- Developed a feature-rich Azure DevOps extension for streamlined internal testing and monitoring.
- Created company's open-source GitHub organization
- 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
- I have written the backend and frontend of my personal website in TypeScript using amazing technologies such as NextJS and React. It includes my blog posts, public S3 drive, presentations, books, snippets, and more.

EyesGuard (github.avestura.dev/EyesGuard)   May 2017 — Present
- Eyes Guard is a Windows Application for protecting your eyes. It will help you (also can force you!) to break if you are working with your PC for a long time using configurable times.

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%)
- At Iran University of Science & Technology, I've studied performance evaluation of computer systems, distributed systems, cloud and grid computing, data mining, dynamic complex networks, and fault tolerance of software and hardware systems. Thesis focused on scheduling algorithms in serverless platforms and FaaS environments.

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.
- Participated in ACM contest (honorable mention)
- Member of academic forum; gave technical talks on Agile, DevOps, Linux vs Windows kernel differences, and more.

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

Extracurricular Activities

Mentor of the IUST Cloud Computing Center   2020 — 2022
- Developed OpenStack-based tools for resource management in a research lab setting. Mentored students on cloud computing concepts and OpenStack usage after a year of hands-on contribution.

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

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