

# Aryan Ebrahimpour

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## ABOUT ME

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Hi! My name is Aryan (Hossein) Ebrahimpour. I'm a passionate site reliability and software engineer with a Master's in Computer Engineering from IUST. Since middle school, programming has been my obsession. I thrive on building robust cloud-native systems and love writing about technical topics on my blog. My interests also extend to math, history, and writing.

## EDUCATION

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### 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.
- At University of Guilan, I began to share my knowledge about programming and web design with other students. After that, I became a member of the academic forum and participated in an ACM programming contest with the result of honorable mention. I had in-class presentations about Agile software methodologies, DevOps, Refactoring and Bad smells in code, processes and threads, SQL Server and Entity Framework related presentations, Economical and social topics like Human Development Index, Informal Sector, etc.

## PUBLICATIONS

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**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

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### Mentor of the IUST Cloud Computing Center

2020 — 2022

- Volunteered at the Cloud Computing Center of Iran University of Science and Technology, a research cloud lab supervised by Dr Mehrdad Ashtiani. I've developed multiple tools on top of the OpenStack's API to administrate resources and distribute them among students. After one year, I became the mentor of the lab and helped many students to learn about cloud computing glossary and get started with OpenStack.

## CERTIFICATES

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**Social Network Analysis**, University of California, Davis ([coursera.org/verify/F44QT4ETVENC](https://coursera.org/verify/F44QT4ETVENC))

June 2020

## SKILLS

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- **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](https://avestura.dev/resume).

## WORK EXPERIENCE

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### 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, including:
  - CityCloud: a cloud-based file storage platform
  - Bafgh Automation: an enterprise automation application for a large company in Yazd. It includes reading weightbridge data, store it locally and sync with the central server, drag and drop report designer and more...

## PERSONAL PROJECTS & OPENSOURCE

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### 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.

### Avestura PasteBin ([avestura.dev/projects/pastebin](#))

Aug 2021 — Present

- Avestura's PasteBin is a modern paste bin with RESTful API. I created it using React, Next, Blueprint, MinIO S3 Object Storage, and Redis for rate-limiting.

## Photo Firemark ([github.com/avestura/PhotoFiremark](https://github.com/avestura/PhotoFiremark))

Apr 2018 — May 2022

- PhotoFiremark hides a photo in another photo using Steganography techniques
- You can read my blog post about the technique [here](#).

## 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](#)
- These lists include but are not limited to projects such as:
  - Dooz Game: A Tic-Tac-Toe GUI app in C++
  - Aryogram: a telegram-looking chat app with a custom protocol on top of TCP and graph path-finding algorithms.
  - Assembly projects: projects such as dc-motor speed control using ATmega32, and a calculator written in assembly and simulated in Proteus, with keypad support using scanning.
  - Hasti Lang: a persian right-to-left programming language, written using F# and FParsec parser combinators.
  - Event Template: a vanilla html/css/js template I've created for my events website without using any frameworks or 3rd party libraries.
  - Othello GUI: a gui othello game with a heuristic ai using min-max tree and alpha-beta pruning.
  - Khorshid: a simple telephone taxi management gui desktop app that I wrote for my mother's tourism institute.

## BLOG HIGHLIGHTS

More at [avestura.dev/blog](https://avestura.dev/blog)

2015 — Present

- Creating a Git Commit: The Hard Way — A deep dive into Git's low-level internals.
- Explaining the PostgreSQL Meme — A fun, technical exploration of PostgreSQL from top to bottom.
- Problems of C, and How Zig Addresses Them — An overview of Zig as a modern alternative to C.
- Understanding Zero-Knowledge Proofs — Simplifying a complex cryptographic concept.

## TALKS

More info at [avestura.dev/talks](https://avestura.dev/talks)

### The new generation of cloud architecture in large-scale software

*SystemGroup Event at University of Tehran*

Tehran, Iran

Feb 27, 2025

### 100 Go Mistakes and How to Avoid Them

*SystemGroup Tech Event (Tech Talk)*

Tehran, Iran

July 29, 2024

### C# Bootcamp

*A code bootcamp held in four sessions in SystemGroup*

Tehran, Iran

Dec 21, 2023

### Cloud Native ERP DevOps

*SystemGroup Baham Event at Tehran International Exhibition Centre*

Tehran, Iran

Dec 24, 2023

### Automated End-to-End Testing at SystemGroup

*Online SystemGroup Webinar*

Tehran, Iran

Sep 20, 2021

### Refactoring Code with C# Examples

*A live talk about code refactoring in Software Talks YT Channel*

Rasht, Iran

July 10, 2019