Mahdi **Akbari Zarkesh**

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Summary

- I'm a **Software Engineer** with **+4 years** of experience in **large-scale production**, **distributed systems**, **microservice architecture,** and **DevOps** engineering.
- I code in **Golang**, **Python**, and **Scala**. I have a solid background in designing and maintaining databases, using **PostgreSQL**, **MongoDB**, and **Redis.**
- I consider myself a **committed** person, with good **teamwork** skills and a great sense of **solution providing**.
- I have always been enthusiastic about learning new technologies and discovering the **best practices** in any field I have worked in.

Work Experience

Software Engineer • [Cafe Bazaar](#) • September 2020 to Present

- **Increased service reliability** as **the system owner** by implementing **circuit-breaker**, **health check probes**, and decreasing dependency on other services.

- Made service self-sustainable, increased **test coverage** by 40%, and improved memory and CPU usage by 7%.
- Decreased install error by 21% by implementing **Feature and Library**, and **Sign Checking** incompatibility check.
- Collaborated with an agile team of 8, and helped prioritize and assess feature requests to ensure that the biggest impact features were **worked on first**.
- Used DevOps, agile principles, and GitLab to enable **CI/CD**.

Golang, Python, RabbitMQ, PostgreSQL, Docker, Kubernetes, Prometheus, Redis, Django, GRPC, Scala, and Spark

Backend Engineer • [Ferdowsi Cloud](#) • October 2019 to September 2020

- Implemented **Restful APIs** in Django that enabled working with OpenStack alongside a team.
- developed **cloud-based technologies** with python for monitoring services.
- Tested software for bugs and **runtime**, fixed bugs, and **documented** processes to improve efficiency.
- Implemented technical solutions for customers.

Python, OpenStack, Kubernetes, Docker, API Design

Android Developer • [Pasavan](#) • March 2018 to October 2019

A small team enabling customers to deploy their ideas by providing consultation and implementation services.
- Wrote unit tests for mobile applications and debugged their critical issues such as crashes, **memory leaks**, and concurrency problems.
- **An optimized** common part of a project to boost its runtime ([Github](#)).

kotlin, java, SQLite, unit, and UI test, Socket, Rest

Teacher • Atomic Energy High School • September 2018 to Present

- Preparing students for **robotics competitions**.
- Benn Intriguing students for programming.
- Influenced the board of directors to start a programming contest for all senior students.
- Adapted and implemented **Flipped Learning** method for Energy Atomic high school students.

robotic (soccer 2d), c++, python, game design, soft skill

Education

- **Master of Computer Engineering** • Sharif University of Technology • 2021 to Present

- **Bachelor of Computer Engineering** • Ferdowsi University of Mashhad • 2017 to 2021

- **High School Diploma** • National Organization for Development of Exceptional Talents • 2013 to 2017

Awards

- B.Sc, University of Ferdowsi, September 2021. (GPA 3.9, Class **rank 1**)
- Ranked 5th in **RoboCup** Asia Pacific International Robotics Competition, 2D Soccer Simulation, Kish Island 2018

Skills

Languages:
- Golang
- Python
- C++
- Scala

Database and Storage:
- PostgreSQL
- Redis
- MongoDB
- Hdfs
- S3

Communication:
- Rest
- Socket
- gRPC
- Message Brokers, RabbitMQ

Technologies and Tools:
- Git and Git Flow
- CI/CD
- PaaS
- IaaS
- Linux and Bash
- Docker
- Kubernetes
- Prometheus
- Apache Spark

Other:
- HTML/CSS/SCSS/JS
- Scrum
- Agile Methodology
- Design and Architecture

Personal Projects

- Stronghold Crusader game (Github). **CPP** with the **Model-ViewController** pattern.

- RealTime Client-Server Pong Game with Monitor (Github). **Python** with **OOPs** concepts.

- UserProfile System (Github). **gRPC** service with **2-layer Cache** implement in **Go**.

- Telegram Channel. My notes.
- Aparat Channel. teaching programming Channel.