

# Mahdi Akbari Zarkesh

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## Summary

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- 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, C++, and Scala**. I have a solid background in designing and maintaining databases, such as **PostgreSQL, MongoDB, and Redis**.
- I consider myself as 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

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**Software Engineer** • [Cafe Bazaar](#) • september 2021 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** in compatibility 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

**Cloud Engineer** • [Ferdowsi Cloud](#) • October 2020 to February 2021

- Implemented **Restful APIs** in Django that enabled working with openstack alongside in 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 2019 to September 2020

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.
- **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

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- **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

## Skills

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### 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

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- Stronghold: Crusader game ([github](#)). teaching my student cpp with the Model-ViewController pattern at atomic .
- [My Telegram Channel](#)
- [My Aparat Channel](#)