

SOFTWARE ENGINEE

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# Summary\_

Software Engineer with expertise in system and backend development. Experienced in designing scalable infrastructures, building system-level tools, and improving legacy architectures. Proven ability to collaborate with teams, mentor new joiners, and write maintainable, high-quality code. Passionate about solving technical challenges and staying current with emerging technologies.

# **Work Experiences**

# → Digikala - Iran's largest e-commerce platform and online marketplace

Tehran, Iran

SOFTWARE ENGINEER Mar. 2024 - present

#### · Variant Creation Rewrite

Collaborated on the architectural transformation of Digikala's variant creation system, migrating from MVC to **Domain-Driven Design** patterns. Refactored legacy codebase and consolidated duplicate logic implementations, improving code maintainability and reducing technical debt. Achieved 20% increase in vendor satisfaction scores across 200 top vendors through enhanced system efficiency and reliability.

#### Risk Mitigation Project

Designed and implemented automated content moderation system using **Elasticsearch** for real-time restricted word detection and developed frontend components using **Twig**. Collaborated with business team and product managers to define and implement risk assessment parameters. Significantly improved moderator accuracy through automated content analysis and risk scoring system.

### • Multi Variant Infrastructure Project

Architected and implemented enterprise-scale variant management system enabling multiple themes per product. Conducted comprehensive code analysis to identify and refactor variant-related dependencies across the codebase. Was involved in collaboration with multiple tribes (shop, finance, fulfillment, delivery) to ensure system-wide compatibility. Designed and implemented a centralized theme data service, enabling other services to access theme-related functionality through standardized service calls.

## ☐ Graph-inc - a cybersecurity company offering an Advance Threat Detection system

Tehran, Iran

GOLANG SYSTEM DEVELOPER IN LINUX EDR TEAM

Feb. 2021 - Mar. 2024

- Developed client side of EDR (Endpoint Detection and Response) with Golang for Linux operating systems and ensured deployment on over 2000 Linux systems, resulting in awarded client security and enhanced threat detection capabilities.
  - Established **gRPC** as the primary communication protocol between client and server.
  - Implemented a log collector which gathers system logs (like **Audit** logs, **Fanotify** notifications) and sends to server.
  - Designed an auto response mechanism that protects client against detected malware.
  - Developed and implemented a dual service solution for both Systemd and SysVinit.
  - Wrap the product using **RPM** and **DEB** package manager which is compatible with CentOS, Red-hat, Ubuntu and Fedora distributions to facilitate initial installation and safe update.
  - Launched an updater service with Golang that automatically updates the package.
- Restructured server side database using Golang's **Ent framework**, resulting in a 10% decrease in query execution benchmark time.
- Customized comprehensive unit tests for Golang packages, ensuring code quality and reducing bug count.

## Sanjagh - an advertising network platform that connects advertisers with publishers

Tehran, Iran

GOLANG DEVELOPER

Feb. 2020 - Jul. 2020

- Launched a highly efficient URL Shortener project during internship at Sanjagh, reducing link generation time by 50% and improving overall website performance by optimizing URL redirects.
- Learned to produce APIs and writing **RESTful API** using **echo framework**.
- · Created a cache service using Golang which caches response of another service. This cache improved response time up to 10 times faster.

## Skills

Programming Languages Golang, PHP, Python, C

**Linux Internals** System calls, logging systems (e.g. Syslog, Rsyslog), auditing system, package managers (RPM, DPKG)

**Database** MySQL, SQLite, PostgreSQL, Redis

Other REST API, gRPC, Elasticsearch, Docker, Twig

Languages Work Proficiency: English Native: Persian

# **Projects**

### Automated Program Repair

This project is an automated program repair tool tailored specifically for Golang, with a focus on improving concurrent code reliability. Its primary goal is to assist developers in debugging and automatically repairing concurrency-related issues, particularly the common problem of missing sync.WaitGroup usage when managing goroutines.

#### Modified xv6 OS

Modified xv6, a simple Unix-like teaching OS developed at MIT, by implementing a round-robin scheduler to manage CPU time fairly among processes. Added a custom system call, getChildren, by extending the process structure and modifying the fork syscall to track child processes using a new global variable.

#### Modified xv6 OS

Developed a URL shortener in Golang using Redis for fast URL storage and retrieval, with short UUIDs ensuring unique, efficient link generation and reliable redirect management.

## **Honors & Awards**

### **DOMESTIC**

2018 Ranked in top 1% among 144,843 applicants, Nationwide University Entrance Exam Tehran, Iran

2017 Bronze Prize, National Mathematics Olympiad - Iran's National Elites Foundation Tehran, Iran

# **Education**

### **Shahid Beheshti University**

Tehran, Iran

M.C.S. IN COMPUTER SCIENCE Sep, 2018 - Expected 2026

- · Specialization:
  - Algorithms

## **Amirkabir University of Technology**

Tehran, Iran

Sep, 2018 - 2023

- B.C. IN COMPUTER ENGINEERING
- Thesis Subject:
  - Automatic Repair of Golang Programs
  - Supervisor: Dr. Mehran Soleiman Fallah