

Reihaneh Rangamiz, AI and Backend Engineer



University of Birmingham



[Linkedin](#), [Github](#), [Medium](#)



Reihaneh.rangamiz@gmail.com



+971503213164



Rxr597@student.bham.ac.uk

+989016092990

SUMMARY

AI- oriented backend developer proficient in **Go (Golang)**, with 1.5+ years of experience contributing to the design and implementation of scalable Microservices, distributed systems, and cloud-based backend. Skilled in goroutines, channels, and concurrency patterns, with hands-on expertise in Microservice Architecture, gRPC, Redis, Kafka, NATS, RabbitMQ, Docker, and AWS. Proficient in PostgreSQL and MySQL, creating reliable data models and optimizing queries, with growing focus on applied AI and cloud based intelligent systems.

Contributed to backend solutions for complex applications, ensuring high availability and scalability.

A collaborative team player who takes ownership and delivers results. Eager to connect with innovative teams and contribute to cutting-edge projects.

[Currently working on personal backend projects to further strengthen my skills in Go, AI integration, microservices, and cloud technologies.]



PROFESSIONAL EXPERIENCE

Teaching Assistant – Operating Systems , University of Birmingham Dubai

Jan 2026 _ Present | UAE – Dubai [on-site]

- Attending preparation sessions to refresh my knowledge and stay aligned with the professor and teammates for upcoming sessions.
- Testing lab materials in advance to anticipate student challenges and ensure smooth delivery
- Preparing clear documentation and additional learning resources to help students access materials more easily
- Supporting students during lab sessions by guiding individuals and groups through their assigned tasks
- Troubleshooting technical issues and providing ongoing support to each student

Backend developer (Golang) - PoolPal Corp (Canadian CRM Platform)

May 2024 _ June 2025 | Canada – Iran [on-site]

- Applied the **Singleton pattern** for efficient database connection management.
- Implemented the **Repository-Service architecture** to streamline data flow between the data layer and controllers.
- **Dockerized** the app, implemented **Logrus** structured logging and established **CI/CD pipelines**.
- Optimized **PostgreSQL** queries with **GORM** to improve performance.
- Leveraged **Redis** for low-latency **OTP/JWT** authentication, improving security response time.
- Enhanced CRM features (inventory, roles, **Automation**), increasing **task automation** by 40%
- Collaborated in architecting an **AWS-based** email system with reusable templates, reducing communication effort by 50%.
- Integrated **AI chat**, **FCM**, **Elasticsearch/Kibana**, boosting support response efficiency.
- Streamlined PDF contract export & signature workflow, accelerating onboarding.
- Developed and tested **RESTful APIs** with optimized search functionality for improved performance and usability.
- Collaborated in agile sprints and code reviews, reducing post-release bugs.

Backend developer (Golang), Correxify (Canadian AI trainer (fitness) App & AI psychologist platform)

Oct 2024 _ Jan 2025 | Canada - Iran [on-site] – [part-time]

- Collaborated in designing and implementing **Scalable Micro-Services** (user management and task management services) ensure modular scalability.
- Utilized **gRPC + Protocol Buffers** communication layer and **RabbitMQ**-based queuing system ensuring asynchronous task processing, fault-tolerant communication and retry mechanisms.
- **Dockerized** services, set up **Logrus** logging and **CI/CD** workflows, and improved deployment consistency.
- Optimized **PostgreSQL** queries (GORM) and integrated **Elasticsearch** for advanced filtering capabilities.
- Built and optimized **RESTful APIs** with efficient search and query handling.
- Implemented **Redis-based authentication** (OTP/JWT) for secure, low-latency user verification.
- Collaborated in agile sprints and code reviews, and applied unit tests, reducing post-release bugs.

Backend developer (Golang), Pooyeshgaran-e-Pars (English learning app). [Link to app](#)

April 2023 _ May 2024 | Tehran – Iran [on-site]

- Developed backend services using **Golang**, **PostgreSQL**, and **Redis**.
- Managed **AWS S3** storage for optimized file upload/download performance.
- Improved data handling and API performance for scalability and high availability.

Software Engineer and Software Test Engineer, SternX (German cyber-security company | parental control App)

Jan 2023 _ March 2023 | Germany – Iran [on-site]

- Built and tested **RESTful APIs** with routing, middleware, and serialization.
- Wrote unit test for backend services to ensure code reliability and correctness.
- Performed manual/automated testing using **Selenium** and **Appium**.
- Logged bugs, wrote test cases using **Jira** and **Qase** and delivered detailed QA reports.
- Strengthened backend fundamentals and testing processes.

CORE SKILLS

Golang | Python | C

Docker | Kubernetes

RabbitMQ

Logrus

PostgreSQL | MySQL

MongoDB (NoSQL) | Redis

Elasticsearch | Kibana

Git | CI/CD

FireBase | AWS

Swagger | Postman

REST | gRPC | Protocol Buffers

Unit/ Integration Tests

EDUCATION



MSc Artificial Intelligence and Computer Science, University of Birmingham Dubai

Sep 2025 _ present

Currently pursuing advanced studies in artificial intelligence, machine learning, and computer science. Gaining expertise in programming, data analysis, and AI applications to prepare for innovative software engineering projects.

Courses: Artificial Intelligence and Machine Learning, AI Programming, Neural Network, Computer Systems, Data Analytics.

BSc Accounting, Kharazmi University of Tehran

Sep 2018 _ July 2022

GPA: 4.0

Studied financial accounting, auditing, and management principles. Developed analytical, problem-solving, and data interpretation skills applicable to technology and business contexts.

LANGUAGE

Persian

Native

English

Professional