Mahdi **Rashidi**

Senior Backend Engineer • Cloud & DevOps Practitioner

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Summary

Backend Engineer with **9+ years** of hands-on experience designing and building systems on cloud platforms, primarily **Microsoft Azure**, with a focus on **microservices architecture**. Areas of responsibility and involvement include:

- Building **backend services** using **Node.js**, **TypeScript**, **NestJS**, with prior experience in **Java** ecosystem
- Designing components of **event-driven systems** leveraging **RabbitMQ** and **Redis Pub/Sub**
- Utilizing containerization and orchestration tools such as **Docker**, **Kubernetes**, **Terraform** for infrastructure management
- Managing monorepo workflows with tools like **Lerna** and **NX** to streamline modular codebases
- Administering data persistence with both relational (**PostgreSQL**) and non-relational (**MongoDB**) databases

Work Experiences

Fakir Technology Consultants GmbH (*Client: SE (inno2fleet E-Mobility Services)* ↗) *Berlin, Germany (Full-Time, Remote)*

Senior Backend Engineer & Technical Lead (Promoted) *Mar 2022 – Jan 2025*

- Aligned with Head of Product to translate business needs into technical specs and development roadmaps
- Led GCP to Azure migration, ensuring GDPR compliance and zero downtime across 3 major products
- Managed Azure Kubernetes Service (AKS) infrastructure supporting EV charging platform with high availability and scalability requirements
- Architected monorepo solution using Lerna and NX, developing reusable generic libraries deployed across multiple microservices
- Upgraded core systems: NestJS major versions and PostgreSQL Flexible Server migration
- Migrated messaging infrastructure from Redis Pub/Sub to RabbitMQ for enhanced monitoring capabilities and system stability
- Optimized cloud infrastructure costs through resource monitoring and implementing comprehensive observability stack
- Deployed monitoring solutions including Grafana, Prometheus, and Redash via Helm Charts for improved system visibility
- Enhanced CI/CD pipeline efficiency in GitLab, integrating automated testing and improving deployment reliability across core microservices
- Mentored and onboarded backend developers to accelerate team productivity and knowledge transfer
- Conducted technical interviews for team expansion and candidate evaluation
- Created comprehensive documentation for infrastructure architecture and incident management processes
- Managed technical debt resolution by upgrading outdated libraries and improving code maintainability across the entire codebase

Senior Backend Engineer *Mar 2021 – Feb 2022*

- Built eConsultant MVP from ground up, to calculate CO_2 emissions and EV transition investment for European fleets
- Developed RESTful APIs using NestJS/TypeScript to support consultation, installation, and charging services for enterprise clients
- Integrated Postman and Jest tests into GitLab CI/CD, improving coverage across key services
- Optimized database performance through PostgreSQL query optimization, reducing API response times for high-traffic consultation endpoints
- Refactored billing service into modular components, enabling parallel development and improving system maintainability
- Documented technical architecture and processes to streamline team workflows and facilitate knowledge transfer across development team

Mehrpardaz Co (EN-Route Flight Operations Platform) *Tehran, Iran (Full-Time, Remote)*

Senior Backend Engineer *Jan 2020 – Feb 2021*

- Built complete backend architecture from scratch using Express.js and JavaScript for aviation operations and crew management
- Designed and implemented RESTful APIs serving React dashboard and iPadOS application for flight crew operations
- Integrated meteorological APIs to deliver real-time weather forecast data for specific flight routes
- Developed features for weight/balance calculations, crew scheduling, and flight document processing
- Architected offline synchronization system enabling flight crews to access critical data without connectivity
- Onboarded and mentored 2 junior developers, establishing development guidelines and documentation standards
- Designed MongoDB schema optimized for aviation data including crew schedules, flight plans, and operational documents
- Implemented data validation and error handling mechanisms to ensure aviation safety compliance
- Collaborated with frontend teams to establish API contracts and ensure seamless platform integration
- Created comprehensive technical documentation covering backend services, APIs, and system architecture

Iran Kish Credit Card Co (Mobile Banking, POS & Payment Gateway Services) *Tehran, Iran (Full-Time, On-Site)*

Backend Engineer *Oct 2018 – Dec 2019*

- Transitioned from Java/.NET technology stack to Node.js ecosystem
- Built RESTful API using Node.js, Express, and MongoDB for user profile management and payment processing
- Contributed to backend services development for Hamput payment application, integrating B2B services for insurance, money transfer, etc
- Enhanced application security by upgrading encryption from 3DES to AES implementation
- Developed Node.js backend services with third-party service integrations for payment platform functionality
- Migrated legacy Objective-C code to Swift in Mobile POS iOS application while adding new features and UI improvements
- Participated in cross-platform development across web APIs, mobile applications, and payment processing systems
- Developed Python scripts to automate data processing and migration tasks

Baharan Sarv Gostar (Learning Management System) *Tehran, Iran (Full-Time, On-Site)*
Software Developer *Oct 2015 – Sep 2018*

- Contributed to ASP.NET WebForms LMS migration to Java EE architecture while maintaining existing system functionality
- Developed LMS components using Java EE and Oracle Database for new platform requirements
- Built backend services and Android application for student class scheduling and assignment submission
- Integrated Adobe Connect API for online class hosting within the LMS platform
- Deployed applications on Linux and Windows servers using VMware ESXi virtualization and VM management

Technical Skills

Programming Languages	**Proficient:** TypeScript, JavaScript (ES6+) **Experienced:** Java, C#, Python, C++ **Familiar:** Kotlin, Go
Backend Frameworks	**Proficient:** Node.js, NestJS, Express **Experienced:** Spring Boot, Java EE **Familiar:** Django, Flask
APIs & Protocols	**Proficient:** REST, gRPC, OpenAPI/Swagger, API Versioning **Experienced:** WebSockets **Familiar:** GraphQL
System Architecture	Microservices, Event-Driven Architecture (EDA), API Gateway, Domain-Driven Design (DDD), Serverless, Monorepos
Cloud Platforms	**Proficient:** Azure (AKS, Key Vault, Blob Storage) **Experienced:** AWS (Fargate, ECS, S3, Amplify), GCP (GKE), Cloudflare
DevOps & Infrastructure	**Proficient:** Kubernetes, Docker, GitLab CI/CD, Linux **Experienced:** Terraform, Helm, GitHub Actions
Databases & ORMs	**Proficient:** PostgreSQL, TypeORM, Redis **Proficient:** MongoDB, Mongoose **Experienced:** MySQL, MSSQL, JPA
Messaging Systems	**Proficient:** RabbitMQ, Redis Pub/Sub, MQTT **Experienced:** Azure Service Bus, AMQP **Familiar:** AWS SQS/SNS, Kafka
Observability	**Proficient:** Azure Monitor, Sentry **Experienced:** Prometheus/Grafana, Fresh Ping **Familiar:** CloudWatch
Quality Assurance	**Proficient:** Jest, Unit/Integration Testing **Experienced:** Postman Automated Tests, End-to-End Testing, Supertest
Security	OAuth2/OIDC, JWT, API Security, RBAC, SSL/TLS, Zero Trust
AI Development	**Experienced:** LLM APIs (Gemini, OpenAI) **Familiar:** Fine-tuning
Frontend Skills	**Familiar:** React (Hooks, Context API), Next.js (App Router, API Routes), HTML5/CSS3
Tools	Git, Linux Distros, Cursor AI, K8s Lens, Jira, Confluence, Miro

Certifications

Backend Development

2024	**Building High-Throughput Data Microservices**, Certificate of Completion	*LinkedIn*
2018	**Object-Oriented Programming in JavaScript**, Course Completion	*Code With Mosh*
2018	**The Complete Node.js Course**, Course Completion	*Code With Mosh*
2017	**REST APIs with Flask and Python**, Certificate of Completion	*Udemy*
2018	**The Complete Python & PostgreSQL Developer Course**, Certificate of Completion	*Udemy*
2017	**Learn Database Design with MySQL**, Certificate of Completion	*Udemy*

Cloud & DevOps

2025	**AWS Cloud Technical Essentials**, Certificate of Completion	*AWS Training*
2025	**Introduction to Generative AI by Google Cloud**, Certificate of Completion	*Google Cloud*
2024	**Advanced Terraform**, Certificate of Completion	*LinkedIn*
2024	**Microservices: Security**, Certificate of Completion	*LinkedIn*
2024	**Azure Administration Essential Training**, Certificate of Completion	*LinkedIn*
2020	**The Complete Docker Bootcamp for Web Developers**, Certificate of Completion	*Udemy*

Leadership & Collaboration

2024	**Critical Thinking for Better Judgment and Decision-Making**, Certificate of Completion	*LinkedIn*
2024	**Working with Difficult People**, Certificate of Completion	*LinkedIn*
2024	**How to Have Productive One-on-One Meetings**, Certificate of Completion	*LinkedIn*

Education

Bu-Ali Sina University *Hamedan, Iran*
B.Sc. in Computer Software Engineering *Sep 2011 – Sep 2015*

- Mentored students as a Teaching Assistant for Object-Oriented Programming and Database Design.
- Developed algorithmic problem-solving and collaborative coding skills through regional ACM-ICPC programming contests.

Languages

English (C1 Professional Proficiency) | Persian (Native) | German (A2 Basic Communication)