

Mahdi Rashidi

Software Engineer (Backend Focused) • Cloud & DevOps Practitioner

Berlin, Germany

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Summary

Software Engineer with **9+ years** of experience building scalable cloud systems on **Azure** and **AWS**, with a focus on **microservices architecture**. Key skills include:

- Developing backend services primarily with **Node.js**, **TypeScript**, and **NestJS**, with **prior experience in Java**-based systems.
- Designing event-driven systems with **RabbitMQ** and **Redis Pub/Sub**.
- Deploying and managing containerized applications with **Docker** and **Kubernetes**, and experience with **Terraform** as IaC.
- Writing **clean, maintainable, and scalable** code following best practices.
- Working 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

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- Managed technical debt resolution by upgrading outdated libraries and improving code maintainability across the entire codebase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 CO₂ 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

- 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
- Deployed applications on Linux and Windows servers using VMware ESXi virtualization and VM management

Technical Skills

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|--------------|---|
| Languages | Proficient: TypeScript, JavaScript (ES6+) Experienced: Java, Python Familiar: Kotlin, Go, C#, C++ |
| Frameworks | Proficient: Node.js, NestJS, Express Experienced: Hono, Deno Familiar: Spring Boot, Django, Flask |
| Databases | Proficient: PostgreSQL, TypeORM, Redis, MongoDB, Mongoose Familiar: Drizzle, Supabase, Sequelize |
| APIs | Proficient: REST, gRPC, OpenAPI/Swagger, API Versioning Experienced: WebSockets Familiar: GraphQL |
| Architecture | Microservices, Event-Driven Architecture, API Gateway, Domain-Driven Design, Serverless, Monorepos |
| Cloud | Proficient: Azure (AKS, Key Vault, Blob Storage) Experienced: AWS (Fargate, ECS, S3), GCP (GKE), Cloudflare Workers |
| DevOps | Proficient: Kubernetes, Docker, GitLab CI/CD, Linux Experienced: Terraform, Helm, GitHub Actions |
| Messaging | Proficient: RabbitMQ, Redis Pub/Sub, MQTT Experienced: AMQP, Azure Service Bus Familiar: AWS SQS/SNS |
| Monitoring | Proficient: Azure Monitor, Sentry Experienced: Prometheus, Loki, Grafana, Fresh Ping Familiar: CloudWatch |
| Testing | Proficient: Jest, Unit/Integration Testing Experienced: Postman CLI, End-to-End Testing, Supertest, Vitest |
| Security | OAuth2/OIDC, JWT, API Security, RBAC, SSL/TLS, Zero Trust, API Tokens |
| AI | Experienced: LLM APIs (Gemini, OpenAI), AI Chat-Bots Familiar: Fine-tuning, RAG, N8N, Ollama |
| Frontend | Familiar: React (Hooks, Context API), Next.js (App Router, API Routes), HTML5/CSS3 |
| Tools | Cursor AI, Git, Linux Distro, K8s Lens, Jira, Confluence, Miro |

Side Projects

NestJS Queue Worker PoC [GitHub↗]

Personal Project

Creator & Maintainer

2025

- A scalable task processing PoC with multi-provider messaging (RabbitMQ, NATS, Redis), workflow orchestration, and fault tolerance.
- Technologies: NestJS / Node.js, TypeScript, PostgreSQL, TypeORM, RabbitMQ, NATS, Redis, Docker, Node.js, Jest, Supertest.

Notable Nomads Backend API [GitHub↗] [Live↗]

Personal Project

Creator & Maintainer

2025

- Backend API service featuring AI chat integration, lead generation, email services, blog, logging, and comprehensive health monitoring.
- Technologies: NestJS / Node.js, TypeScript, PostgreSQL, TypeORM, Gemini API, Docker, AWS SES, Cloudflare Pages, Swagger.

Personal Portfolio Website [GitHub↗] [Live↗]

Personal Project

Creator & Maintainer

2024

- Portfolio with an interactive terminal, real-time GitHub activity, and Medium blog integration. SEO-optimized and fully responsive.
- Technologies: Next.js, React, App Router, TypeScript, ShadCN, Tailwind CSS, Framer Motion, Zod, Lucide React, Vercel CI/CD.

Recent Certifications

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| 2025 | AWS Cloud Technical Essentials, Certificate of Completion | AWS Training |
| 2025 | Introduction to Generative AI, Certificate of Completion | Google Cloud |
| 2024 | Building High-Throughput Data Microservices, Certificate of Completion | LinkedIn |
| 2024 | Advanced Terraform, Certificate of Completion | LinkedIn |
| 2024 | Microservices: Security, Certificate of Completion | LinkedIn |
| 2024 | Azure Administration Essential Training, 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) | Turkish (A1 Simple Conversations)