Mahdi **Rashidi**

Senior Backend Engineer • Cloud & DevOps Practitioner

Berlin, Germany

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Summary

Backend 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**, using **Terraform** for infrastructure.
- 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- Managed technical debt resolution by upgrading outdated libraries and improving code maintainability across the entire codebase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 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

Languages	**Proficient:** TypeScript, JavaScript (ES6+) **Experienced:** Java, C#, Python, C++ **Familiar:** Kotlin, Go
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
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 (Claude, 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, MJML
Tools	Cursor AI, Git, Linux Distros, K8s Lens, Jira, Confluence, Miro

Recent Projects

NestJS Queue Worker PoC [GitHub↗]   *Personal Project*

Creator & Maintainer   *2025*

- Fault-tolerant task processing system with workflow orchestration, retries, queue management, and compensation mechanisms.
  Technologies: NestJS, TypeScript, PostgreSQL, RabbitMQ, Docker, Node.js.

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

Creator & Maintainer   *2025*

- Backend API with AI chat, email services, blog management, health monitoring, and lead generation workflow.
  Technologies: NestJS, TypeScript, PostgreSQL, Node.js, Docker, AWS, Swagger.

Recent Certifications

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*
2020	**The Complete Docker Bootcamp for Web Developers**, Certificate of Completion	*Udemy*

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)