

Mahdi Rashidi

Senior Backend Engineer • Cloud & DevOps Practitioner

Berlin, Germany

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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 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
- 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: Hono, Deno Familiar: Spring Boot, 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, Serverless, Monorepos
Cloud Platforms	Proficient: Azure (AKS, Key Vault, Blob Storage) Experienced: AWS (Fargate, ECS, S3), 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 Familiar: PostgREST, Supabase
Messaging Systems	Proficient: RabbitMQ, Redis Pub/Sub, MQTT Experienced: AMQP, Azure Service Bus Familiar: AWS SQS/SNS
Observability	Proficient: Azure Monitor, Sentry Experienced: Prometheus/Grafana, Fresh Ping Familiar: CloudWatch
Quality Assurance	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 Development	Experienced: LLM APIs (Gemini, OpenAI), AI Chat-Bots Familiar: Fine-tuning, RAG
Frontend Skills	Familiar: React (Hooks, Context API), Next.js (App Router, API Routes), HTML5/CSS3, MJML
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) | Turkish (A1 Simple Conversations)