GETUAR JAKUPI

BACKEND SOFTWARE ENGINEER | NODE.JS & TYPESCRIPT

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PROFESSIONAL PROFILE

Backend Software Engineer with hands-on professional experience developing, maintaining, and improving production backend services using Node.js, TypeScript, and Express.js. Experienced in microservices, RESTful APIs, event-driven architectures, authentication, and database integrations using PostgreSQL, MongoDB, Redis, and Kafka. Skilled in automated testing, Docker, Kubernetes, and CI/CD workflows, with a strong focus on system reliability, data integrity, security, and maintainable code.

PROFESSIONAL EXPERIENCE

Backend Developer - SoftDome | Remote | April 2026 - Present

- Develop and maintain production backend microservices and RESTful APIs using Node.js, TypeScript, Express.js, PostgreSQL, MongoDB, and Redis.
- Design and integrate event-driven communication using Apache Kafka, supporting asynchronous processing and service-to-service interactions.
- Implement secure authentication and authorization mechanisms, including JWT, RBAC, two-factor authentication, and permission-based access control.
- Build and maintain automated unit and integration tests, API validation, structured logging, health checks, and Swagger/OpenAPI documentation.
- Contribute to service reliability through debugging, production issue investigation, data consistency improvements, and recovery mechanisms.
- Work with Docker, Kubernetes, and Jenkins CI/CD pipelines to support containerized deployments and backend delivery workflows.

TECHNICAL SKILLS

Languages: TypeScript, JavaScript, Python, SQL

Backend: Node.js, Express.js, REST APIs, Microservices, Event-Driven Architecture

Databases & Messaging: PostgreSQL, MongoDB, MySQL, Redis, Apache Kafka, NATS

Security & Testing: JWT, RBAC, 2FA, Jest, Unit & Integration Testing, Swagger/OpenAPI

DevOps & Tools: Docker, Docker Compose, Kubernetes, Jenkins CI/CD, Git, GitHub, Postman

Additional: React, FastAPI, scikit-learn, Machine Learning

SELECTED PROJECTS

2FA Authentication Service | Node.js · TypeScript · PostgreSQL · Redis · MongoDB · Kafka · Docker

- Developed a backend authentication service featuring JWT access/refresh tokens, role-based access control, and TOTP-based two-factor authentication.
- Implemented secure session management, token invalidation, API validation, and audit logging.
- Built automated tests and containerized the service using Docker, with Kubernetes and CI/CD integration.

Smart Resource Booking System | Microservices · REST APIs · JWT · RBAC

- Developed a resource booking platform using a microservice-based architecture.
- Implemented API Gateway integration, authentication, role management, resource management, and booking analytics.

Social Media Application | Node.js · MongoDB · React

- Developed a full-stack application with secure authentication, RESTful APIs, and social interaction features.
- Implemented post management, pagination, protected routes, and image upload integration.

EDUCATION

UBT - University for Business and Technology, Prishtina | 2023 - Present

BSc in Computer Science and Engineering | Final stage of studies

CERTIFICATIONS & TRAINING

Node.js Backend Development Training - Beetroot Academy | 2026

Delivered by Beetroot Academy in collaboration with and funded by Qendra FIT. Covered Node.js, Express.js, MongoDB, Mongoose, JWT authentication, asynchronous programming, and REST API development.

Full-Stack Web Development - ROI Academy | 2025 - 2026

Completed a 6-month intensive training program covering HTML5, CSS3, JavaScript, React, Node.js, Express.js, MongoDB, REST APIs, authentication, Git, and full-stack application development through practical projects.

Arra Academy - IT Training Program | 2023

Web development, databases, cybersecurity, and programming fundamentals.

English Language Certification C1 | 2019

LANGUAGES

Albanian (Native), English (C1), German (B1), Serbian (B1)