

Ömürcan ÖZCAN

Backend-Oriented Full-Stack Developer | AI-Enabled Systems

Node.js · Python · PostgreSQL · REST APIs · Docker · RAG / LLM Systems

Üsküdar, Istanbul | +90 555 152 29 64 | Email: omurcan.ozcan.48@gmail.com
LinkedIn: linkedin.com/in/omurcanozcan | GitHub: github.com/omurcan48

PROFILE

Backend-oriented full-stack developer with 5+ years of experience building and owning production systems, APIs, integrations, and data-driven applications. Strong in TypeScript, Node.js, Python, SQL, REST APIs, and production troubleshooting. Currently focused on AI-enabled systems, including RAG and LLM-based workflows.

WORK EXPERIENCE

Istanbul Chamber of Pharmacists — Full-Stack Developer | Jan 2023 – Present

- Build and own backend-heavy production systems serving 6,000+ pharmacies and managing 35,000+ drug records across member services, payments, scheduling, staffing, and internal operations.
- Modernized legacy PHP workflows into modular Node.js/MSSQL APIs, implementing JWT authentication, permission-based access control, Sequelize data models, validation, integrations, and operational reporting.
- Designed an AI-assisted pharmacy scheduling engine using Node.js, Python/FastAPI, Ollama and OR-Tools CP-SAT, converting natural-language rules into validated constraints for fair annual duty allocation.
- Built and maintained production integrations and workflow systems involving payment services, SMS, external-data retrieval, caching, geospatial rules, transactional batch processing, and Linux/Nginx troubleshooting.

Ceva Engineering — Jr. Full-Stack Developer | Jun 2021 – Dec 2022

- Built dashboard modules and reporting tools for municipality-related construction projects.
- Developed cost analysis, progress tracking, and payment workflows using PHP, JavaScript, Bootstrap, and relational databases.

SELECTED AI & BACKEND PROJECTS

Regulatory Intelligence / RAG Platform — Python, RAG, LLM Pipelines

Built a regulatory RAG platform with ingestion, metadata-aware retrieval, embeddings, reranking, source-grounded answers, and multi-step orchestration.

Aviation Cargo Management System — Node.js, REST APIs, Unit Testing

Built a Node.js logistics system for cargo tracking, workflow management, reporting, REST APIs, and unit tests.

TECHNICAL SKILLS

Core Backend: TypeScript, Node.js, Python, PHP, FastAPI

AI & Retrieval: RAG, LLM Integrations, Document Ingestion, Embeddings, Reranking

Databases: PostgreSQL, MySQL, SQL Server

Backend Engineering: REST APIs, Third-Party Integrations, Authentication, RBAC, JWT, Unit Testing

DevOps & Tools: Docker, Linux, Nginx, Git, GitHub Actions, GitLab CI/CD

Frontend: JavaScript, React.js, HTML5, CSS3, Bootstrap

EDUCATION

Anadolu University — Management Information Systems | Ongoing

Bogazici University — Undergraduate Studies in Physics Education and Science Education | 2010–2019

LANGUAGES

English — B2 · Turkish — Native

