HARUN ERKAM BALI

Full Stack Developer | DevOps Engineer | R&D Engineer

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PROFESSIONAL SUMMARY

Backend-focused Full Stack Developer, DevOps Engineer and R&D Engineer with 3+ years of experience delivering production software end-to-end. Develops C#/.NET APIs and web applications with ASP.NET Core and Entity Framework Core, alongside Django, FastAPI, Go and Node.js services. Works with MSSQL, PostgreSQL and Redis across Windows Server and Linux, with ownership of Docker, Kubernetes (k8s), CI/CD, deployment and reliability. Experience includes authentication, billing workflows, automation, real-time services and AI/TTS integration.

CORE TECHNICAL SKILLS

Languages: C#, Python, Go, TypeScript, JavaScript, SQL

Backend: .NET, ASP.NET Core, Entity Framework Core, Django / DRF, FastAPI, Node.js / Express.js, NestJS, REST APIs, JWT, RBAC and background workers

Frontend: React, Next.js, HTML, CSS, responsive interfaces, dashboards and admin UI / API integration

Data: MSSQL / SQL Server, PostgreSQL, Redis, MySQL, MongoDB, Firebase; relational modeling, migrations, indexing, transactions, query optimization and caching

DevOps & Infrastructure: Windows Server, Linux, Docker, Docker Compose, Kubernetes (k8s), Nginx, Traefik, PgBouncer, Gunicorn/Uvicorn, GitHub Actions, CI/CD, SSL/TLS, health checks, logging and monitoring

Cloud & R&D: AWS EC2, Azure App Services, PyTorch, NVIDIA NeMo, ESPnet, VITS, TTS pipelines, streaming gateways and service integration

PROFESSIONAL EXPERIENCE

Full Stack Developer & DevOps Engineer - R&D
Aug 2026 - Present

Neurosound Dikkat Ve Algı Geliştirme Merkezi | Türkiye

- Develop C#/.NET APIs and web applications with ASP.NET Core, Entity Framework Core and MSSQL for NSP business workflows.
- Design R&D prototypes and backend architectures using Django, FastAPI, Go, PostgreSQL and Redis; integrate AI/TTS, streaming and external-service pipelines.
- Work across Windows Server and Linux environments, with Docker and Kubernetes (k8s), evaluating performance, reliability and scalability across application, data and infrastructure layers.

Full Stack Developer & DevOps Engineer
Aug 2024 - Aug 2026

Neurosound Dikkat Ve Algı Geliştirme Merkezi | Türkiye

- Developed production full-stack applications, REST APIs, backend services and internal systems using Django, FastAPI, Express.js/Node.js and Go.
- Optimized PostgreSQL/Redis workloads, SQL/ORM queries, indexes, caching and connection-pooling patterns.
- Managed Docker and Kubernetes (k8s), CI/CD, Nginx, PgBouncer, SSL/TLS, ingress, health/readiness checks, logging, monitoring and automated deployments.
- Operated application and database services and contributed to infrastructure performance and production reliability.

Full Stack Developer
Feb 2024 - Aug 2024

Neurosound Dikkat Ve Algı Geliştirme Merkezi | Türkiye

- Developed full-stack web applications using Django, FastAPI, Express.js and modern frontend technologies.
- Built REST APIs, authentication systems, automation tools, internal services and third-party integrations.
- Designed relational models, optimized SQL/ORM queries and developed reusable backend modules with PostgreSQL and Redis.

PROFESSIONAL EXPERIENCE - CONTINUED

Software Developer **Nov 2023 - Feb 2024**

Neurosound Dikkat Ve Algı Geliştirme Merkezi | Türkiye

- Developed an interactive educational application using Unity and C#, including application flows, UI, learning modules, reusable components and data handling.
- Worked on debugging, testing and performance improvements while translating educational requirements into maintainable digital experiences.

EARLIER EXPERIENCE

Research & Development Engineer **Feb 2023 - Jun 2023**

AutoDidactic Technologies | Konya, Türkiye

- Built Python and Node.js prototypes for AI/R&D experiments and reproducible data-processing and reporting workflows.
- Supported Docker-based development, Linux administration, AWS EC2 deployments and automation scripts.
- Contributed to reinforcement-learning and experimental software with rapid iteration and technical reporting.

SELECTED PROJECTS

Doom Team: Self-hosted software engineering tool with dependency-aware planning, real validation, independent QA/review and a human approval boundary. Python CLI with durable mission history; public early engineering release.
github.com/erkamspyjamas/doom-team

NSP .NET API Platform: API and background-worker platform for NSP business data, authentication, client/dealer workflows, CRM operations and reporting. C#, ASP.NET Core, Entity Framework Core and MSSQL.

Sustindex: Independently developed FinTech platform with Django, FastAPI, React and PostgreSQL, covering backend APIs, relational data, frontend integration and production-oriented architecture.

Stock & Device Tracker: Inventory, cargo and device-tracking application built with Node.js/Express.js using Firebase and MSSQL variants, connecting operational workflows and web interfaces.

Cognitive Booster: Django and JavaScript web application for cognitive-performance exercises, user progress tracking and education workflows.

Realtime TTS / AI Service Integration: Connected Python TTS workers to application backends through Go/Python service layers, with low-latency communication, retries, timeouts and reliable integration.

Speed Reading Platform: PHP/MySQL reading application extended and optimized for education users, including product and data-flow improvements.

Advanced Learning Unity Program: Unity/C# educational application combining interactive learning modules, application logic, reusable components and learning-oriented UX.

Audio / Device R&D: Wi-Fi/Bluetooth headphone development, audiogram-device reverse engineering and listening-test application development.

EDUCATION

B.Sc., Management Information Systems - Necmettin Erbakan University

2019 - 2023 | GPA: 3.11 / 4.00

CERTIFICATIONS

- EF SET English Certificate - 65/100 (C1 Advanced)
- Aygaz Machine Learning Bootcamp

LANGUAGES

Turkish: Native | English: C1 (EF SET 65/100)

Doom Team is public. Other selected repositories and production systems are private; architecture overviews or selected code excerpts can be shared when appropriate.