HARUN ERKAM BALI

Backend Engineer | C#/.NET | Python | Django | FastAPI | Go

Türkiye | Open to Remote | +90 539 569 28 75 | admin@harunerkam.com | harunerkam.com
linkedin.com/in/harunerkam | github.com/erkamspyjamas

PROFESSIONAL SUMMARY

Backend engineer with 3+ years of experience designing, building and operating production APIs and services. Develops C#/.NET systems with ASP.NET Core, Entity Framework Core and MSSQL, alongside Python, Django/DRF, FastAPI and Go services. Experienced in relational data modeling, authentication/authorization, async/background processing, service integration, query optimization and real-time communication. Owns backend delivery across Windows Server and Linux using Docker, Kubernetes (k8s), CI/CD, health checks, logging and monitoring.

CORE TECHNICAL SKILLS

Backend & Languages: C#, .NET, ASP.NET Core, Entity Framework Core, Python, Go, TypeScript/JavaScript, Django / DRF, FastAPI, Node.js / Express.js, NestJS

API & Architecture: REST APIs, JWT/session auth, RBAC, validation, pagination, rate limiting, background workers, queues, retries, timeouts and streaming gateways

Data & Caching: MSSQL / SQL Server, PostgreSQL, Redis, MySQL, MongoDB, Firebase; relational modeling, migrations, indexing, transactions, query optimization and caching; schema design, SQL/ORM optimization and connection pooling

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

R&D / AI Systems: PyTorch, NVIDIA NeMo, ESPnet, VITS, TTS pipelines, inference/service integration and low-latency backend communication

PROFESSIONAL EXPERIENCE

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

Neurosound Dikkat Ve Algı Geliştirme Merkezi | Türkiye

- Develop ASP.NET Core APIs and background workers with C#, Entity Framework Core and MSSQL for NSP authentication, client/dealer workflows, CRM operations and reporting.
- Design backend architectures with Django, FastAPI, Go, PostgreSQL and Redis; integrate AI/TTS and streaming pipelines with retries, timeouts and failure handling.
- Evaluate service boundaries, API flows, data paths and deployment approaches across Windows Server, Linux, Docker and Kubernetes (k8s).

Full Stack Developer & DevOps Engineer
Aug 2024 - Aug 2026

Neurosound Dikkat Ve Algı Geliştirme Merkezi | Türkiye

- Built backend services, REST APIs and internal systems using Django, FastAPI, Express.js/Node.js and Go.
- Designed PostgreSQL schemas and migrations; optimized SQL/ORM queries, indexes, caching and PgBouncer-backed connection handling.
- Implemented authentication, permissions, integrations, background-processing patterns and Redis-backed production workloads.
- Deployed and operated services with Docker and Kubernetes (k8s) behind Nginx, maintaining CI/CD, SSL/TLS, ingress, health checks, logging and monitoring.

Full Stack Developer
Feb 2024 - Aug 2024

Neurosound Dikkat Ve Algı Geliştirme Merkezi | Türkiye

- Developed web backends and REST APIs using Django, FastAPI and Express.js, including authentication systems, internal services and external integrations.
- Designed relational models and reusable backend modules; improved PostgreSQL/Redis access and caching patterns.
- Built automation tools and operational workflows to reduce repetitive manual work and improve consistency.

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, data-processing workflows and technical reporting.
- Supported Docker-based development, Linux administration, AWS EC2 deployments and automation scripts.
- Contributed to reinforcement-learning and experimental software with an emphasis on iteration and reproducibility.

SELECTED BACKEND PROJECTS

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.

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

Sustindex - Backend Architecture: Designed Django/FastAPI/PostgreSQL services for a FinTech platform, including authentication, data modeling, API design and deployment patterns.

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

Django Production Platform: Multi-app Django systems with role-aware access, dashboards, media/static handling, PostgreSQL optimization, Redis caching and Nginx/Gunicorn/Docker deployment.

Stock & Device Tracking Backend: Node.js/Express.js inventory, cargo and device-management services using Firebase and MSSQL variants, with data validation and operational workflows.

AI / TTS Training Workflow Services: NVIDIA NeMo, ESPnet and PyTorch tooling for dataset preparation, training/fine-tuning, artifacts and backend integration.

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.