Eyup Bayram Backend Engineer

Umraniye, Istanbul • egorkemb@gmail.com • +90 505 554 84 58 • linkedin.com/in/egbayram • github.com/egbay

Summary

Backend-heavy software engineer (7+ yrs) focused on AI products and cloud-native architectures with hands-on backend experience (Python/FastAPI, Node/NestJS, PostgreSQL). Designed reliable billing pipelines and low-latency APIs on AWS/Lambda/edge, with strong focus on observability and safe rollouts. Looking to drive platform reliability and developer velocity in a backend/platform role. Passionate about leveraging technology to solve real-world problems and contribute to impactful projects.

Experience

Freelancer. *Backend Engineer*   Jul 2024 – Present
Istanbul, Türkiye (Remote)
- **Project: Payments & Billing + Online Learning Platform** — Modeled DB with Prisma; managed schema migrations and transactions; implemented repository/service layers to ensure data integrity. Stack: NestJS, TypeScript, Prisma, PostgreSQL.
- **Project: AI Fashion Project** — Developed REST APIs for model invocations, job management, and status tracking using FastAPI. Integrated Supabase authentication & storage; enforced signed URLs and access policies. Built async workflows and queuing for long-running jobs. Deployed on GCP.
- **Project: Full-Stack Development for Multiple AI Products** — Defined service boundaries, API contracts, and inter-service communication (HTTP/queues) in a microservice architecture. Used FastAPI, Django, Node.js, TypeScript, Prisma across products. Built event-driven workflows and serverless functions on AWS Lambda. Rapidly shipped UI with Vercel V0 and hardened React components for production.
- **Key Achievements:**
  - Shipped a modular billing architecture enabling easy addition of new plans and discount rules.
  - Increased resilience with idempotency and retry patterns on critical payment operations.
  - Implemented RBAC-based authorization with clear customer/teacher/student boundaries.
  - Modular job/pipeline design enabled adding new AI variants with minimal changes.
  - Established data lifecycle and access policies to protect customer assets.
  - Achieved low latency and effortless scaling via serverless and edge patterns; adopted feature flags for safe rollouts.

Smartex AI. *Backend Engineer & Managing Director*   Sep 2022 – Jul 2024
Porto, Portugal
- Led Smartex's expansion in Türkiye post-acquisition of Tuvis AI, managing budgets, compliance, and resourcing.
- Backend development with Node.js, TypeScript, PostgreSQL, MongoDB, TypeORM, Prisma; key role in migration from TypeORM to Prisma.
- Owned production support: created API endpoints, resolved live bugs, and improved operational stability.
- **Key Achievements:** Strengthened regional presence and client relations; contributed to efficient backend solutions supporting the company's $40M+ funding milestones.

Tuvis AI. *Co-Founder & Software Engineer*   Jul 2018 – Sep 2022
Istanbul, Türkiye
- Co-founded and scaled AI-driven anomaly detection solutions for manufacturing process optimization.
- Led a team across project planning, technical implementation, and server management.
- Hands-on backend work with Flask, Django, PostgreSQL, Redis, AWS (S3, EC2, RDS, Lambda, CloudWatch, ECR), GitHub Actions, Celery, RabbitMQ.
- Engaged clients with technical insights; secured multiple R&D projects funded by TUBITAK, KOSGEB, and Growth Circuit VC.
- **Key Achievements:** Enabled Tuvis AI acquisition by Smartex.ai (2023); delivered high CSAT and long-term partnerships.

Peakode. *Research & Development Engineer (Part-Time)*   Sep 2016 – Jun 2017
Bursa, Türkiye
- Built IoT solutions with XBee sensor networks, xCTU, Node.js, and Raspberry Pi.

TOFAS. *Research & Development Engineer (Part-Time)*   Sep 2016 – Jun 2017
Bursa, Türkiye
- Conducted CAN Bus analysis and contributed to Instrument Cluster Panel development for an EV prototype using C++ and GLStudio.
- Awarded "Best R&D Project" within TOFAS.

Education & Certifications

Kocaeli University   Kocaeli, Türkiye
M.Sc. in Computer Engineering   Jan 2019 – Thesis Stage

Emerald Cultural Institute   Dublin, Ireland
Academic English Program (IELTS 6.5)   Oct 2017 – Jun 2018

Uludag University   Bursa, Türkiye
B.Sc. in Electrical & Electronics Engineering   Sep 2013 – Jun 2017

IELTS Academic (6.5)   Feb 2018

Skills

Languages: Python, JavaScript/TypeScript
Databases: MySQL, PostgreSQL, MongoDB
Frameworks: Flask, FastAPI, Django, Node.js, NestJS, Prisma, TypeORM
Cloud/Tech: Serverless Framework, AWS (S3, SNS, EC2, API Gateway, Lambda, RDS, CodeCommit, CloudWatch)
Other: Celery, Redis, RabbitMQ, GitHub Actions, Sentry, CAN Bus
Language Proficiency: English (IELTS 6.5)

Volunteer

Co-founded the IEEE Bursa Uludag University Student Branch; organized events, workshops, and technical trainings to help students build leadership and engineering skills.