Eyup Bayram Backend Engineer

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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. Looking to drive platform reliability and developer velocity in a backend role. Passionate about leveraging technology to solve real-world problems and contribute to impactful projects.

Experience

Freelancer *(Istanbul, Türkiye)* — Remote
Software Engineer — July 2024 – Present

- **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. Used Cloudflare workers, AWS Step functions, AWS Lambda, AWS API Gateway, Vercel.
- **Payment & 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. Deployed on AWS, using EC2, RDS.
- **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. Hands-on backend work with FastAPI, PostgreSQL, several GCP services, GitHub Actions, Celery, RabbitMQ.

Smartex AI *(Porto/Istanbul, Portugal/Türkiye)* — Remote
Backend Engineer & Managing Director — September 2022 – July 2024

- 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.

Tuvis AI *(Istanbul, Türkiye)* — Istanbul, Türkiye
Co-Founder & Software Engineer — July 2018 – September 2022

- 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.

Peakode *(Bursa, Türkiye)* — Bursa, Türkiye
Research & Development Engineer — September 2016 – June 2017

- Built IoT solutions with XBee sensor networks, xCTU, Node.js, and Raspberry Pi.

TOFAS *(Bursa, Türkiye)* — Bursa, Türkiye
Research & Development Engineer — September 2016 – June 2017

- 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

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, MQTT
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.