Gozde Eski Baran

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PROFESSIONAL SUMMARY

Software Engineer with 3+ years of experience designing and building full-stack applications and backend services. Experienced in distributed systems and microservices architecture, and in delivering AI-enabled features from data labeling and model integration to API development and cloud deployment. Proven ability to translate complex requirements into reliable, scalable, production-ready software while collaborating effectively in Agile teams.

WORK EXPERIENCE

Goldenfinch AI Inc. – Software Engineer | Toronto, ON | July 2025 - Present
- Designed and currently building a full-stack, AI-integrated platform on a fully AWS-backed cloud using an event-driven distributed system and microservices architecture with **AWS Api Gateway, Cognito, Lambda, ECS,** EventBridge, SQS, SNS, StepFunctions**,** and deploying AWS Resources with **AWS CDK** (Cloud Development Kit).
- Building a modular mobile and web stack with React Native and **FastAPI**, leveraging **AWS ECS Fargate** for containerized service deployment. Integrating CloudWatch for real-time observability and system health monitoring.
- Implementing a **RAG** (Retrieval-Augmented Generation)-based recommendation pipeline using **PostgreSQL pgvector** with **OpenAI embeddings**, versioned vector storage, top-k semantic retrieval, and re-ranking; established async workflows for projected scale targets (~50K users, ~1K TPS peak).

AiDeal Technology Inc. & Research & Innovation Center, GBC – Software Engineer – Applied Research | Toronto, ON | Dec 2024 – June 2025
- Engineered and deployed a production-grade Computer Vision pipeline for industrial defect detection, achieving **90%**+ accuracy using **PyTorch/TensorFlow.**
- Architected a high-concurrency backend service using **FastAPI and PostgreSQL**, managing the full deployment lifecycle on AWS ECS Fargate to ensure consistent uptime for manufacturing quality control.
- Automated the data ingestion and MLOps pipeline, integrating deep-learning inference into a scalable **React.js/TypeScript** UI and improving overall inspection workflow reliability.

Prisma Industry – Software Developer | Ankara, Turkey | Jun 2022 - Dec 2023
- Architected a full-stack project management app using **Django and PostgreSQL** to digitize manual QA/QC workflows for leadership by centralizing fragmented data from 10+ concurrent construction sites.
- Engineered a relational schema and automated status reporting platform that unified payment, cost-efficiency, and progress tracking, eliminating manual data entry and increasing operational transparency across distributed engineering teams.

ADDITIONAL EXPERIENCE & COMMUNITY

Mathematics Peer Tutor | George Brown College | May 2024 – Present
- CRLA Certified Tutor: Provided 1-on-1 and group mentorship in Discrete Mathematics and Calculus, simplifying abstract logic for engineering and programming peers.

SKILLS

- **Languages:** Python (FastAPI), TypeScript, JavaScript (Node.js), SQL
- **Backend & Systems:** RESTful APIs, Microservices Architecture, Event-Driven Design, Asynchronous Programming
- **AWS Ecosystem:** Cognito, API Gateway, Lambda, ECS, SQS, SNS, EventBridge, StepFunctions, S3, CloudFront, CDK
- **DevOps & Tools:** Docker, GitHub Actions, CI/CD CodePipeline, CloudWatch
- **Databases:** PostgreSQL (pgvector), DynamoDB, Redis
- **AI/ML Integration:** RAG, AWS Bedrock, OpenAI Embeddings, PyTorch, TensorFlow

EDUCATION

Bachelor of Engineering
Yıldırım Beyazit University - Ankara, Türkiye | GPA: 3.44/4.00 (WES Evaluated)
Advanced Diploma, Computer Programming & Analysis
George Brown College - Toronto, ON | Apr 2026 | GPA: 3.77/4.00