Erdem Ege Eroglu

Senior Software Engineer | Forward Deployed Engineer | AI Products

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SUMMARY

Senior Software Engineer with 5+ years of experience building AI-powered product systems and full-stack web applications. Built Fashinoscope's multi-model AI recommendation engine from the ground up, serving a catalog of 1M+ products, then took it to market as a forward deployed engineer: deployed it to **17 brands**, designed the data and API layer that makes new-brand onboarding repeatable, and shaped new products from client needs. Its widgets account for **~35%** of client sites' average daily revenue. Currently managing newly joined engineers in a ~10-person team.

EXPERIENCE

Senior Software Engineer (AI / Forward Deployed), Fashinoscope | Ankara, Türkiye | Oct 2022 – Present

Product and Platform

- Architected and built the AI-powered recommendation engine from the ground up, combining multiple models to deliver visual similarity search and outfit recommendations for fashion e-commerce.
- Designed scalable backend services with Node.js, Python and Elasticsearch serving real-time recommendations across a combined catalog of **1M+ products**, with all user interactions tracked in ClickHouse; optimized search and recommendation queries, cutting API response latency by **40%**.
- Developed embeddable React and TypeScript recommendation widgets integrated into enterprise e-commerce websites, driving **4,000+ monthly purchases** and **~35%** of client sites' average daily revenue.

Forward Deployed Engineering

- Deployed the platform to **17 brands**, owning each integration end-to-end from technical scoping to production launch.
- Built a feed ingestion layer that parses each brand's XML product feed (SKU-level size variants, pricing and discounts, stock availability, category hierarchies) into a unified data model, making new-brand onboarding repeatable.
- Evolved the API into a flexible, client-ready interface adaptable to different brand requirements; together with the ingestion layer, reduced onboarding time by **70%**.
- Served as the technical counterpart for brand teams, translating their requirements into product customizations and turning recurring requests into new product offerings.

Leadership

- Grew with the company from a small founding team to **~10 engineers**; onboard, mentor and manage newly joined engineers, including defining their onboarding projects.

Software Engineer, dYdX Foundation | Remote | Aug 2020 – Oct 2022

- Built full-stack analytics dashboards with React and Node.js visualizing community engagement and growth metrics in real time.
- Developed Python scraping and ETL pipelines automating data collection from decentralized platforms.
- Processed and analyzed large-scale datasets in Google BigQuery, enabling data-driven decisions for internal teams.

PROJECTS

Outfiy: Digital Wardrobe and Outfit App | Founder and Developer | In development

- Building a cross-platform iOS and Android app with React Native (Expo) and a Node.js backend, featuring a virtual wardrobe, outfit builder, wishlist, style stats and travel packing planner.
- Designed swipe-based discovery for style exploration, wardrobe cleanup and wishlist decisions, with AI-driven item tagging and ranking; defined a subscription plus affiliate business model for a Türkiye-first, bilingual (EN/TR) launch.

Maestro Labs: AI x Music x Blockchain Platform | Team Lead and Full-Stack Developer

- Led a **7-person** engineering team building an experimental platform that combines AI-generated music with web applications and blockchain infrastructure.

SKILLS

Languages: TypeScript, JavaScript, Python, SQL

Frontend and Mobile: React, React Native, Expo, embeddable widgets

Backend and Data: Node.js, Elasticsearch, ClickHouse, Google BigQuery, REST APIs, ETL pipelines, product feed integration

AI: Recommendation systems, multi-model pipelines, visual similarity search, OpenAI API

Infrastructure: AWS, Docker, Nginx

Other: Forward deployed engineering, client integrations, technical leadership, mentoring

PUBLICATIONS

Cross-Lingual Transfer Learning for Misinformation Detection, LDK Conference 2023

EDUCATION

B.S. in Computer Science, Bilkent University | Ankara, Türkiye