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Professional Objective

Highly motivated Computer Engineer and Full Stack Developer with strong expertise in AI-driven applications and mobile ecosystems. Specialized in integrating Machine Learning models into production-ready web platforms using Django and Node.js. Experienced in developing secure, scalable systems like Digital Attendance automation and AI Chatbots. Seeking a Senior Engineering role to leverage deep skills in React, Flutter, and Backend Architecture to deliver impactful software solutions.

Education

- **Manisa Celal Bayar University** September 2020 - June 2025
Bachelor of Science in Computer Engineering (100% English) Manisa, Turkey
 - Completed a 1-year English preparatory program (2020-2021) before commencing departmental coursework in 2021.

Experience

- **MotiveX Intelligence Inc. & ENM Technology** June 2025 - Present
Computer Engineer & Full Stack Architect Manisa, Turkey (Remote)
 - **Digital Attendance System (DYS) Architecture:**
 - * Designed and engineered the "Digital Attendance System," a unified automation platform replacing legacy tracking methods.
 - * Architected a secure **Node.js** backend handling 5,000+ concurrent requests. Implemented a custom **Cryptographic QR** algorithm (TOTP) that regenerates every 5 seconds, preventing attendance fraud.
 - * Built a real-time Administrative Dashboard using **React.js**, utilizing **Socket.io** to stream live attendance data to lecturers without page refreshes.
 - * Containerized the entire stack (API, Frontend, Postgres, Redis) using **Docker**, orchestrating microservices for seamless production deployment.
 - **LifeOps Mobile Ecosystem Development:**
 - * Spearheaded the full-cycle development of "LifeOps," a cross-platform productivity application using **Flutter**.
 - * Integrated **Cloud Firestore** as the primary real-time database, enabling instant data synchronization across multiple devices (iOS/Android).
 - * Implemented robust offline capabilities using Firestore's native persistence cache, ensuring seamless UX even in low-connectivity environments.
 - * Utilized **Firebase Cloud Functions** to handle complex backend logic and scheduled notifications.
 - **AI-Powered Healthcare Solutions (RAG):**
 - * Led the development of an intelligent medical chatbot for aesthetic surgery consultations using **Next.js** and **Express**.
 - * Implemented a Retrieval-Augmented Generation (RAG) pipeline using **Upstash Vector** to store and query medical knowledge embeddings.
 - * Integrated OpenAI's LLMs to deliver context-aware, medically accurate responses to patient queries.
 - **DevOps & Database Engineering:**
 - * Managed complex **PostgreSQL** schemas for university data, optimizing SQL queries for high-volume read operations.
 - * Implemented **Redis** caching for session management and API rate limiting, reducing database load by 40%.
- **ENM Technology Inc.** February 2025 - June 2025
Computer Engineering Apprenticeship (IME) Manisa, Turkey
 - **Frontend Modernization (UNIA Platform):**
 - * Led the frontend overhaul of the UNIA University Social Platform using **React.js** and **TailwindCSS**.
 - * Developed a component library based on Atomic Design principles to standardize the UI across institutional modules.
 - **API Optimization:**
 - * Migrated legacy REST endpoints to **GraphQL**, optimizing data fetching strategies and reducing network payload sizes.

* Implemented **Apollo Client** for efficient state management and caching.

- **ENM Technology Inc.**

Computer Engineering Intern

July 2024 - January 2025

Manisa, Turkey

- **AI Web Integration:**

- * Developed scalable web services using **Django** and **Python** to serve Machine Learning models as RESTful APIs.
- * Conducted extensive testing and validation of AI model outputs within the web environment to ensure high accuracy.
- * Designed secure API endpoints for real-time inference requests, enabling seamless communication between client applications and the AI core.

- **Containerization:**

- * Utilized **Docker** to containerize Django applications, ensuring consistent development environments and simplifying deployment processes.

Key Projects

- **Digital Attendance System (DYS)**

2025

Tools: [Node.js, React, Docker, PostgreSQL, Redis, Socket.io]

Role: Lead Full Stack Architect

- **System Overview:** Engineered a comprehensive automation platform enabling 10,000+ students to mark attendance via secure QR codes.
- **Security Architecture:** Designed a dynamic QR generation service (TOTP logic) that expires codes every 5 seconds, preventing fraud.
- **Real-Time Dashboard:** Built a React admin panel enabling lecturers to monitor attendance live via WebSockets.
- **Deployment:** Fully containerized application using **Docker** and orchestrated with Docker Compose.

- **LifeOps - Productivity Ecosystem**

2025

Tools: [Flutter, Firebase, Cloud Functions, Firestore]

Role: Lead Mobile Developer

- **Mobile Engineering:** Developed a robust cross-platform mobile app for task management using **Flutter**.
- **Real-Time Sync:** Integrated **Cloud Firestore** for instant data synchronization across iOS and Android devices.
- **Offline-First:** Leveraged Firestore's native persistence to ensure full app functionality in offline mode.

- **Teknofest 2024 - Disaster Management System**

2024

Tools: [Python, Django, Kotlin, Bluetooth/BLE]

Role: Full Stack IoT Developer

- **Wearable Integration:** Developed a system to ingest real-time vitals (Heart Rate, SpO2) from smartwatches via **Bluetooth Low Energy (BLE)**.
- **Mobile Interface:** Built a native **Kotlin** Android app for field responders to visualize patient triage status received from the wearable devices.
- **Backend Processing:** Utilized a **Django** backend to log patient data and optimize ambulance routing algorithms based on triage priority.

- **UniA - University Social & Academic Platform**

2025

Tools: [React, Next.js, GraphQL, Docker]

Role: Frontend Engineer

- **Frontend Architecture:** Developed modular, reusable React components to standardize the SaaS platform's design system.
- **Performance:** Optimized GraphQL queries to reduce load times on mobile devices.

- **Airline Overbooking Prediction Model**

2025

Tools: [Python, Scikit-learn, Pandas]

Role: Data Scientist

- **ML Modeling:** Trained Random Forest models on historical flight data to predict passenger "no-show" probabilities.
- **Impact:** Provided actionable insights for revenue management optimization.

Technical Skills

- **Programming Languages:** JavaScript (ES6+), TypeScript, Python, Java, Dart, C#, SQL, Kotlin
- **Frontend Development:** React.js, Next.js, Flutter (Mobile), React Native, TailwindCSS, Bootstrap, Material UI, Redux
- **Backend Development:** Node.js, Express.js, NestJS, Django, .NET Core, WebSockets (Socket.io), GraphQL
- **AI & Data Science:** LLM Integration (RAG), OpenAI API, LangChain, Scikit-learn, Pandas, NumPy, OpenCV, Vector DBs
- **Database & Cloud:** PostgreSQL, MySQL, Redis, MongoDB, Firebase (Firestore, Functions), Upstash

- **DevOps & Infrastructure:** Docker, Docker Compose, Git, GitHub Actions (CI/CD), Nginx, Linux Environment

Languages

- **Turkish**

Native

- German: Elementary (A1)

English

Professional Proficiency