Zeynep Dellal

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EDUCATION

Bilkent University — Ankara, Turkey
Bachelor of Computer Science

EXPERIENCE

Embedded Systems Intern — August 2024 - September 2024
Karel — *Ankara, Turkey*
- Developed hardware and software processes for **IoT** device communication using **ESP32**, **BME280**, **Zephyr**, and **ESP-IDF**.
- Optimized vehicle routes by managing 1M+ rows of data with **MySQL**, reducing processing time by 20% using **Jupyter Notebook**.

Undergraduate Assistant — October 2023 - May 2024
Bilkent University — *Ankara, Turkey*
- Assisted Prof. Robin Ann Downey with administrative tasks and helped organize the Responsible **ARTIFICIAL INTELLIGENCE AWARDS** with **MATHWORKS**.

Game Developer — September 2023 - January 2024
FoxyCode Studios — *İstanbul, Turkey*
- Developed the entire core gaming system in **C#** and **Unity**, implementing all components and integrating animations for enhanced gameplay.

Backend Development Intern — June 2023 – July 2023
Medyasoft — *İstanbul, Turkey*
- Applied **C#**, **Unigate CMS**, and **ASP.NET MVC** to develop plugins and integrate backend systems, enhancing website functionality and user experience.

Android Developer — November 2021 – November 2022
BenzinLitre — *İstanbul, Turkey*
- Developed over 15 production-level features, debugged, and optimized the app using **MVVM** design for the **Android** platform, ensuring clean, maintainable, and efficient code.

PROJECTS

Veritas | *PyTorch, FastAPI, spaCy, FastAPI, Django, PostgreSQL, React Native*
- Worked on a cross-platform news app, handling **AI models, LLMs, frontend, and backend**.
- Built **AI** models with **PyTorch** and **FastAPI**, developed the backend with **Django**, and created a **React Native** frontend.

Aircraft Detection System | *PyTorch, Hugging Face, RarePlanes Dataset*
- Developed and trained custom **CNN**, **ResNet**, and hybrid models, along with **RCNN** and **YOLOv8**, for aircraft detection and bounding box regression in satellite images achieving 92% accuracy.

DualReview AI | *FastAPI, GitHub API, OpenAI API, DeepSeek API*
- Built an AI-powered GitHub bot that automates code reviews using two **LLMs** (**GPT-4o** and **DeepSeek**) to generate and compare suggestions.
- Connected **FastAPI** backend with GitHub webhooks to fetch PR diffs and auto-post structured review comments.

PetLink - Pet Adoption Website | *Docker, Flask, TypeScript, SQL, React.JS*
- Led **React.JS** development for **PetLink**, managing the pet adoption platform's user interface.

TECHNICAL SKILLS

Languages: Python, C, C++, C#, Java, JavaScript, TypeScript, SystemVerilog
Web & App Development: HTML/CSS, React Native, React.js, Node.js, Flask, FastAPI, Django
AI/ML & Data: PyTorch, Hugging Face Transformers, OpenAI APIs, YOLOv8, CNNs, ResNet, Jupyter Notebook
IoT & Embedded Systems: Zephyr RTOS, ESP-IDF, ESP32, BME280, Vivado, SystemVerilog
DevOps & Tools: Docker, Git, GitHub, Linux, Android Studio, REST APIs, Unigate CMS
Languages: English (Proficient), Turkish (Native)