Zeynep Dellal

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EDUCATION

Bilkent University   Ankara, Turkey
Bachelor of Computer Science   *Expected June 2025*

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*
- Designed and developed features, debugged and optimized the app using **MVVM** design for the **Android** platform with clean, maintainable, and efficient code.

PROJECTS

Veritas | *PyTorch, FastAPI, Django, PostgreSQL, React Native*
- Worked on a cross-platform news app, handling **AI, 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, 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.

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

Internship Management System, Team Lead | *MongoDB, Node.js, HTML/CSS/JavaScript*
- Led the development of an Internship Management System, handling the entire **frontend** and parts of the **backend**, and integrating third-party **APIs** for added functionality.

TECHNICAL SKILLS

Programming Languages: C, Java, Python, C++, C#, TypeScript, JavaScript, System Verilog
Frameworks: Django, FastAPI, Flask, Node.js, Unity, React Native, REST API, ASP.NET MVC, Zephyr, ESP-IDF, LibGDX
Developer Tools: Linux, Docker, Git, GitHub, Jupyter Notebook, MySQL, PostgreSQL, MongoDB, Android Studio, Vivado, Firebase
Libraries: PyTorch, Hugging Face Transformers, Beautiful Soup, Retrofit, JUnit
Languages: English (Proficient), Turkish (Native)