

# BORAY ERGÜN

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## SKILLS

**Programming:** Python, Machine learning, Deep learning, Django, FastAPI, PyTorch, Parallel Processing, Pandas, Numpy, OpenCV, Large Language Models, SQL, Cloud deployment, AWS, Linux

**Software Design:** UML, AADL

## EXPERIENCE

### Meteksan Savunma

Software Engineering Intern

Ankara, Turkey | August 2022 – September 2022

- Designed and implemented a CAN-bus controller software tool based on the J1939 protocol.

### Algorithmics / Kodland

Programming Tutor

Ankara, Turkey | June 2022 - November 2022, September 2024 - Current

- Instructed Python and Scratch programming to over 50 students, improving their coding proficiency by 40%.

### Atılım University

Student Assistant

Ankara, Turkey | September 2022 - January 2023

- Facilitated the instruction of C and C++ programming courses on university lab sessions.

### Sebit Eğitim ve Bilgi Teknolojileri A.Ş.

Artificial Intelligence Long Term Intern

Ankara, Turkey | June 2023 - February 2024

- Contributed to the creation of a Turkish-language LLM, enhancing model accuracy by 25% through advanced NLP techniques.
- Engineered and deployed end-to-end machine learning pipelines, integrating frontend and backend systems with large language models (LLMs), achieving 25% reduction in latency through scalable MLOps practices.

### Sebit Eğitim ve Bilgi Teknolojileri A.Ş.

Data Scientist / Machine Learning Engineer

Ankara, Turkey | February 2024 - June 2024

- Spearheaded the R&D process for a Turkish Educational LLM, achieving a 40% reduction in model training time through optimized data preprocessing.
- Engineered CLI, GUI, and API-based tools, automating data workflows and reducing manual processing time by 50%.
- Created and managed an unstructured local database and logging library, improving data retrieval efficiency by 35%.

### Hubinit

Artificial Intelligence Intern

Amsterdam, Holland | December 2024 – Current

- Developing machine learning models, data preprocessing, and implementing algorithms

## RESEARCH / PROJECT EXPERIENCE

### Automated UAV

2022

- Evaluated and refined locking and tracking algorithms

### LLM Web Interaction Application

2023 - 2023

- Trained an open source LLM which is proficient in Turkish.
- Engineered API's, session-based user management system, PostgreSQL and API key system with Python Django.
- Developed a user-friendly frontend which has login/logout, chatting, API key management and profile screens.

### Contextual Word Guessing

2024

- Designed and developed a Turkish word guess application which is about finding the closest word to a selected word in context.
- Engineered the web application and vectorDB to find closest word using cosine similarity.

## EDUCATION

### Atılım University

Bachelor of Science in Software Engineering / CGPA: 3.58

Ankara, Turkey | 2020 - 2024

- 2x Honorary Degree:** February 2021, June 2021 (GPA above 3.00)
- 6x High Honorary Degree:** February 2022, June 2022, February 2023, June 2023, February 2024, June 2024 (GPA above 3.50)

## RELEVANT COURSE WORK

Object Oriented Design	Algorithms / Data Structures	Blockchain
Software Architecture	Machine Learning	Software Design and Analysis
Software Testing	Database Management	Software Project Management

## ADDITIONAL

**Interests:** Playing basketball, Music composition, solving problems/puzzles.