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Murat Bolu

Summary

Senior computer engineering student at Middle East Technical University. Interested in formal methods, programming languages and compilers.

Education

2020 — 2025 **Bachelor of Science in Computer Engineering**,
Middle East Technical University, Ankara, Turkey
GPA: 3.71, Ranking: 9th/284
Courses of Interest: CENG444 (*Language Processors*), CENG488 (*Guided Research*), CENG424 (*Logic for Computer Science*)
High honor student for the 2020–2021 fall, 2022–2023 spring, 2023–2024 fall, spring semesters; honor student for the 2021–2022 spring, 2022–2023 fall semesters.

Experience

September 2022 — Present **Teaching Assistant**, *Middle East Technical University*, Ankara, Turkey
- Teaching assistant for the *Algorithms* course in Fall 2024.
- Teaching assistant for the *Programming Language Concepts* course in Spring 2023. Assisted in the preparation of two Haskell programming exams.
- Teaching assistant for the *Introduction to Computer Engineering Concepts* course in Fall 2022.

July 2023 **Software Engineering Intern**, *TÜBİTAK BİLGEM İLTAREN*, Ankara, Turkey
- Developed a library of data structures in C++ with static memory allocation.
- Implemented and optimized search heuristics for the longest simple path problem.
- Constructed an algorithm for frequency detection in time-series data.

March 2023 — September 2023 **Research Assistant**, *Middle East Technical University*, Ankara, Turkey
Conducted research on artificial intelligence, working with Prof. Faruk Polat. Developed four new heuristics for task assignment in multi-agent pathfinding that run up to three times faster with similar costs.

2022 **Software Engineering Intern**, *Vitruvian Robotics*, Ankara, Turkey

Languages

English (Fluent, TOEFL iBT: 30/26/23/28), Turkish (Native)

Skills

Programming Languages: C++, Haskell, Python
Version Control: Git