

Murat Bolu

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Summary

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

Education

2020 — 2025 **Bachelor of Science in Computer Engineering,**
Middle East Technical University, Ankara, Turkey

GPA: 3.71

Courses of Interest: CENG444 (*Language Processors*), CENG488 (*Guided Research*)

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

July 2023 **Software Engineering Intern, TÜBİTAK BİLGEM İLTAREN, Ankara, Turkey**
○ Developed a library of data structures in C++ without dynamic memory allocation, purely allocating memory on the stack.
○ Implemented and optimized heuristic search for the longest simple path problem in a graph.

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

October 2022 **Teaching Assistant, Middle East Technical University, Ankara, Turkey**
— June 2023 ○ Was a teaching assistant for CENG242 (*Programming Language Concepts*) in Spring 2023. Assisted in the preparation of two Haskell programming exams.
○ Was a teaching assistant for CENG111 (*Introduction to Computer Engineering Concepts*), the introductory computer engineering course, in Fall 2022.

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

Languages

English (Fluent), Turkish (Native)

Skills

Programming Languages: C++, Haskell, Python

Version Control: Git