

SERDAR SÖYLEMEZ

SOFTWARE ENGINEER

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SUMMARY

Software Engineering student with focus on software development, algorithm design, and database systems. Worked with ROS2, Python, and C++ in academic and project settings, including UAV autonomy and system integration. Studied and applied cybersecurity topics such as network security and threat analysis. Experienced in system optimization, project management, and working with international teams.

PROFESSIONAL EXPERIENCE

APL transportation, London

June 2023 - Feb 2024

- Managed transport operations in a London-based company, ensuring efficiency and service quality.
- Optimized route planning, reducing delays and improving reliability.
- Worked with cross-cultural teams to achieve operational goals effectively.
- Contributed to the company's **software transformation**, improving workflow automation and overall efficiency.

PROJECTS

Combat UAV Competition — National UAV Challenge

Oct 2024 – Aug 2025

- Designed and implemented a UAV with ROS2, integrating autonomous navigation and real-time control.
- Utilized C++/Python, Gazebo & PX4 simulators for testing and system optimization.
- Collaborated in a multidisciplinary team, achieving robust software-hardware integration.

SKILLS

- Programming & Frameworks:** Python, C/C++, ROS2, Selenium
- Algorithms:** Design and Analysis of Algorithms, Data Structures
- Databases:** SQL, Relational Database Design
- Software Tools:** Git, Jira, Docker, Linux, Simulation Tools (Gazebo, PX4)
- Cybersecurity:** Network Security, Threat Analysis, Vulnerability Assessment
- Core Competencies:** Problem Solving, System Optimization, Team Collaboration

EDUCATION

Bachelor's Degree in Software Engineering

Sep 2021 - June 2026

Maltepe University

- Relevant coursework in Software Engineering, Project Management, Software Architecture, Database Systems, Algorithms & Data Structures, and Business Management.

ADDITIONAL INFORMATION

- Languages:** Turkish(Native), English(Fluent), German(Beginner).
- Interests:** Algorithmic problem solving, Robotics, Tennis.