# Umut Aytuğ Semerci

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## Skills

Skills: Web Development, Software Engineering, Computer Network, Cyber Security, Test Automation

Languages: C, C++, Python, Rust, Go, Java, HTML, CSS, JavaScript, Vue, NodeJS, Express.JS, MongoDB, SQL, Bash

## Education

**Kadir Has University | Istanbul, Turkey**                                  *October 2021 – June 2025*

Bachelor of Science in Computer Engineering, GPA 3.37

## Experience

**Kadir Has University**                                                      *February 2025 – June 2025*

### Network Engineering 1(CMPE451) Teaching Assistant

- Served as Teaching Assistant for CMPE-451 Network Engineering I course, assisting in the delivery of Cisco's CCNA v7 curriculum to undergraduate students
- Guided students through practical implementations of networking concepts including IP addressing, Ethernet switching, VLAN configuration, and wireless networking

**Kadir Has University**                                                      *September 2024 – January 2025*

### Computer Networks(CMPE351) Teaching Assistant

- Assisted students in understanding core networking concepts, including protocols, routing, and network architecture.
- Help students with hands-on lab activities.

**BRANDEFENSE**                                                              *August 2024 – August 2024*

### Intern

- Conducted research on advanced cybersecurity threats and tools.
- Explored innovative cybersecurity methodologies.

**A101 Yeni Mağazacılık A.Ş.**                                               *June 2024 – June 2024*

### Cyber Security Intern

- Conducted security event monitoring and threat analysis.
- Participated in implementing secure configurations.

**Sompo Sigorta**                                                            *June 2023 – August 2023*

### Software Development Intern

- Develop and maintain test automation scripts and frameworks using tools like Puppeteer.js.
- Execute automated tests across diverse platforms and environments, ensuring comprehensive test coverage.

## Projects

**Neurodefender IDPS** [GitHub Link](#)

- Developed a Network Intrusion Detection and Prevention system that will detect the network anomalies using ML.
- Integrated BERT based machine learning and developed a light-weight IDPS for edge or resource constrained devices.

**Discord Music Bot** [GitHub Link](#)

- Developed a Discord.js music bot, enabling users to play music from various sources including YouTube and Soundcloud.
- Integrated advanced queue management, volume control for enhanced user experience.

**Voting System in C** [GitHub Link](#)

- Created a robust C program for implementing a secure and efficient voting system with user authentication and candidate registration functionalities.
- Utilized data structures and algorithms to optimize performance and scalability, ensuring accurate vote counting.

**Wordle Clone in JavaScript** [GitHub Link](#) [Website Link](#)

- Engineered a JavaScript-based clone of the popular game Wordle, an word-guessing experience.
- Designed an intuitive user interface and ensured compatibility across different devices for seamless gameplay.

**HTTP Request Tester** [GitHub Link](#) [Website Link](#)

- Developed a simple JS server for testing HTTP requests, with endpoints for various HTTP methods and error responses.
- Integrated Swagger UI for interactive API documentation, facilitating easy exploration of available endpoints.

**IP Finder** [GitHub Link](#) [Website Link](#)

- Engineered a web application using Vue.js to provide detailed IP information and display locations on an interactive map.
- Ensured responsiveness across different devices and utilized IPAPI service for accurate IP data retrieval.

**Password Strength Checker** [GitHub Link](#) [Website Link](#)

- Developed a web application using Vue.js to evaluate password strength and estimate crack time.
- Integrated password strength indicators and common password checks for enhanced security.

**Linux Alert Monitoring** [GitHub Link](#)

- Designed a Bash script for proactive system monitoring, alerting administrators via Telegram when resource thresholds are exceeded.
- Implemented functions to monitor CPU, memory, and file system usage, ensuring comprehensive monitoring coverage.