Bulut Gozubuyuk

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EDUCATION

Clemson University	**Clemson, South Carolina**	*01/2023 - Current*
M.S. in Computer Science (Graduation: 12/2024)		GPA: 4.0/4.0
Bilkent University	**Ankara, Turkey**	*01/2018 - 05/2022*
B.S. in Computer Science		

EXPERIENCE

Graduate Research Assistant	**Clemson, South Carolina**	*01/2023 - Current*

- Developed and deployed a learning platform using Nginx, MySQL database, and Flask on AWS EC2, and implemented CI/CD pipelines (workflows) with GitHub Actions for automated testing and deployment.
- Leading the Android Automotive Privacy Analysis Tool Project. Employing JavaScript (React.js Framework) on the front end and Python (Flask) on the back end. The tool automatically assesses the privacy impacts of over 100 million cars in the sector.

Back-End Developer Intern at Trendyol	**Istanbul, Turkey**	*06/2022 - 07/2022*

- I took part in microservices development using Go, Docker, and PostgreSQL for the Trendyol classified ads project.

Software Engineer Co-Op at (MilSOFT & Tubitak)	**Ankara, Turkey**	*12/2021 - 06/2022*

- Contributed to Tactical Data Link projects in accordance with NATO standards, customer needs and Scrum (Agile) methodologies.
- Developed and executed unit tests using C++ and Python to ensure code quality and reliability.

Software Engineer Intern at Siyah R&D	**Ankara, Turkey**	*06/2021 - 08/2021*

- Developed a multithreaded, object-oriented TCP client-server library using **C++**.
- Utilized POSIX threads to enable simultaneous execution and efficient resource management.
- Followed best practices for code documentation and version control using Git.
- Implemented and maintained efficient networking and messaging modules, resulting in a 30% reduction in memory usage and a 50% increase in CPU performance.

Software Engineer Intern at Pardus	**Ankara, Turkey**	*08/2020 - 09/2020*

- Implemented a Linux PAM module in C to facilitate network login for Pardus Debian distribution.

CERTIFICATIONS

Amazon - AWS Certified Solutions Architect (SAA) – Associate	*05/2024 - 05/2027*
Amazon - AWS Certified Cloud Practitioner (CLF) – Foundational	*01/2024 - 05/2027*

PROJECTS

Social Book Cataloging Platform with React.js - https://cs353group11.github.io

- Developed web application with Material-UI and integrated with MySQL to store user profiles, book records, and activity logs. Features include advanced book search, progress tracking, social interactions, and book list curation.

Monopoly Pandemic JavaFX Game - https://github.com/bulutg/1F-Monopoly

- Developed a 3D Monopoly game with a pandemic theme on Java FX, enabling users to play on a 3D World map.
- Architected OOP for extensibility, combining Monopoly elements with unique pandemic-themed scenarios.

LocoMobile Android Application - https://github.com/bulutg/locomobile

- LocoMobile is a mobile train management software that offers ticket sales to customers.
- Paired with its Firebase server, it also facilitates robust admin management for train companies.

Wildfire Prediction with Machine Learning

- Using NASA's satellite data, utilized SVM to correlate surface temperature and wildfires with 93% accuracy.

Makeathon Ankara Competition

- Secured 2nd Place among 43 teams, building an agricultural quadcopter using Arduino in 48 hours.
- Integrated the quadcopter with a custom Android app and showcased exceptional teamwork and expertise.

LEADERSHIP AND ORGANIZATIONAL EXPERIENCE

Young Entrepreneurs Society at Bilkent University	**Berlin, Germany**	*09/2018 - 02/2019*
Organizer and Co-director of Business Talks in Berlin Event		

- Organized visits to over 12 distinguished Berlin companies, including Microsoft, KPMG, Siemens, Blacklane, and Ableton, allowing students to connect with industry experts and gain diverse insights.

Bilkent University Cyber Security Student Club	**Ankara, Turkey**	*09/2018 - 05/2022*
Founder of Cyber Security Student Club		

- Educated over 50 members on advanced cybersecurity practices, principles, and real-world applications.
- Organized workshops, sessions, and collaborative projects to enhance hands-on learning.