Dominika Bobik

Software Engineer

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Education

B.S. Computer Engineering
Michigan Technological University
2019 – 2023

- Student athlete: Women's Tennis Team
- Electrical and Computer Engineering Undergraduate Advisory Board
- GPA: 4.0

Professional Experience

Software Engineering Intern
Microsoft Corporation
May 2022 – Aug 2022

Implemented DoH (DNS over HTTPS) Proxy that increased the overall security and privacy of the Windows operating system.

- Executed asynchronous queries using proprietary threading systems
- Configured network to reroute DNS traffic
- Ensured that the system runs safely and efficiently

DNS, HTTPS, C/C++

Software Engineering Intern
Open Systems International
May 2021 – Aug 2021

Developed new features for the power outage management system "Compass" for various customers ranging from private firms to national electric corporations.

- Implemented dynamic elements in Compass's map software using the MapBox API while maintaining cross-platform compatibility and a positive user experience

C#, Xamarin Forms, JavaScript, HTML/CSS

Projects

Personal Website
Jun 2022
TypeScript, React.js

eeAID
Jun 2022
Progressive web app that finds color code based on the resistance of the basic circuit component and performs calculations commonly used by electrical engineers.
TypeScript, React.js

DBank
May 2022
Commandline-based banking application.
Supabase, JavaScript

GVSC Leader-Follower
Jan 2022 – May 2022
Worked on implementing the autonomous following behavior in a 5-robot convoy using data from Lidar sensors.
ROS, Python, C++

Tic Tac Toe
Jan 2022
Console-run tic tac toe game for 2 players.
C++

Research Experience

Security and Privacy Lab
Research Assistant
Sep 2022 – Dec 2022

"Towards Secure Decentralized Cloud Storage by Leveraging Blockchain Technology"
Led a research study in cloud system security focusing on error-correcting codes that are suitable for flash memory in a decentralized cloud architecture.