

Charles Engler

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Computer science student looking to turn my passion for computer programming into a career by gaining meaningful experience in a post-secondary environment where I can both grow and contribute

EDUCATION

WPI, Worcester MA - Computer Science Major with a Cybersecurity focus (2022 - Present)

Classes: Software Engineering (CS3733), Computer Networks (CS 3516), Algorithms (CS 2223), Introduction to Artificial Intelligence (CS 4341), Embedded Computing in Engineering Design (ECE 2049)

Performance: 3.83 GPA, Dean's List

SKILLS AND PROFICIENCIES

Programming: JavaScript, C/C++, ReactJS, HTML, CSS, Assembly, C#, PHP, Java, Python

Technologies: Linux, Embedded Systems, Relational and Document Databases, Computer Networking Security, Git, MS Word, MS Outlook, MS Excel, Google Drive, Containerization Software

Other: Executive Collaboration, Time Management, Problem Solving, Communication, Critical Thinking, Forklift Certified

WORK EXPERIENCE

The Home Depot, North Hampton, NH

June 2022 - Present

Sales Associate, Freight and Receiving Team Member

Timberlane School District, Plaistow, NH

July 2022 - August 2022

IT Assistant

- Rebuilt and reimaged computer systems for use in classrooms and computer labs
- Debugged networking and phone connections across multiple schools
- Learned how large scale computer networks work when deployed
- Worked with professionals in the field and observed their approach to technical problem solving

Riverwoods Exeter Retirement Community, Exeter, NH

September 2019 - February 2022

Waitstaff Manager, Assisted Living Server, Dishwasher, Dining Server

- Managed the wait staff for a dining room serving 100+ customers
- Interact with and catered to regular customers in a personal manner
- Collaborated with backend and frontend staff to run a large scale dining operation

PROJECT EXPERIENCE

Interactive Qualifying Project (2024)

- Collaborated with a team of four other students
- Analyzed barriers to obstructive sleep apnea diagnosis and awareness
- Interviewed and surveyed patients in addition to field professionals
- Developed a proposal for an awareness campaign to be run by healthcare professionals

Computer Networks Projects (2024)

- Developed simple HTTP server and client application for sending files using the HTTP protocol
 - Client establishes a socket and connection before generating a custom HTTP header
 - Client supports large file transfers by reading and compiling data packets
 - Server establishes a socket, bind, and listen before constantly checking for data
 - Server supports error checking for invalid headers, timeouts, corruption
- Developed simple Distance Vector Routing Protocol simulation
 - Simulates process in which routers determine the fastest path between each other for sending data

CS3733 Software Engineering Project (2024)

- Website developed with a NextJS front end and an AWS RDS and Lambda back end
- Entity, boundary, and control class concepts used to develop final deliverable
- Git collaboration used to track files and control versions between multiple developers
- Time management, conflict resolution, and division of work used to effectively develop as a team

ORGANIZATIONS

- Phi Kappa Theta Fraternity: President 2025, Vice President of Finance and Risk 2024
- WPI Cybersecurity Club, WPI Outing Club