

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: Computer Networks (CS 3516), Algorithms (CS 2223), Database Systems I (CS 3431), Introduction to Machine Organization and Assembly (CS 2011), Embedded Computing in Engineering Design (ECE 2049)
Awards: Dean's List (Fall 2022, Spring 2023, Fall 2023)

SKILLS AND PROFICIENCIES

Programming: C/C++, ReactJS, HTML, CSS, Javascript, ASM Analysis, C#, PHP, Java, Python, gdb

Graphic Design: Adobe Photoshop, Adobe Premiere Pro, Adobe Illustrator

Other: MS Word, MS Outlook, MS Excel, Google Drive Suite

WORK EXPERIENCE

The Home Depot, North Hampton, NH June 2022 - August 2023
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 from an IT perspective
- 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
- Learned to interact with and cater to regular customers in a personal manner
- Provided accessibility for customers in assisted living dealing with various disabilities
- Worked in conjunction with backend and frontend staff to run a large scale dining operation

PROJECT EXPERIENCE

Computer Networks Projects (2024)

- 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 multiple data packets
 - Server establishes a socket, bind, and listen before constantly checking for data
 - Server supports error checking for invalid headers, timeouts, etc.
- Simple Distance Vector Routing Protocol simulation
 - Simulates the process in which routers determine the fastest path between them for sending data

Portfolio Web Application - charlieengler.com (2023)

- Website written in custom HTML, Javascript, and CSS as a static webpage for lightweight hosting
- Cross platform styling for mobile, desktop, and tablet support without a loss of features
- Custom Javascript code for displaying education information in a visually pleasing, intuitive format
- Sleek, modern design with a visually pleasing color palette for easy navigation and extended viewing

Ecogoats Mobile Application (2022)

- Mobile application using the Unity game engine for the frontend and Google Firebase for the backend
- Custom motion graphics for a visually pleasing, gamified user experience
- Account creation and login feature for saving user data and tracking survey answers
- Intuitive surveys and statistics for users to visualize their progress and ecological impact

ORGANIZATIONS

- Phi Kappa Theta Fraternity: Interim President 2024, VP of Finance and Risk 2024
- WPI Cybersecurity Club
- EHS Extended Learning Opportunity, Robotics Programmer, Ski Club