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: Tools and Techniques in Computer Network Security (CS 4044), Operating Systems (CS 3013),
   Software Engineering (CS 3733), Algorithms (CS 2223), Embedded Computing (ECE 2049)
   Performance: 3.83 GPA, Dean's List

SKILLS AND PROFICIENCIES

   Programming: C/C++, JavaScript, 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: Cybersecurity Defense and Attack Techniques, Executive Collaboration, Time Management, Problem
   Solving, Communication, Critical Thinking, Forklift Certified

PROJECT EXPERIENCE

Operating Systems Projects (2025)
- Multithreaded CPU Raytracer
  - Instantiates processes on multiple threads to render a raytraced scene and generate a video
  - Parallelizes physics, rendering, and file saving
  - Implements semaphores, barriers, and critical region management to optimize code execution
- Virtual Memory Paging Simulation
  - Simulates page tables in a 64 byte address space with 128 bytes of virtual memory
  - Handles multiple processes with separate pages and page tables
  - Swaps pages and page tables between physical memory and swap files

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

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

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

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

ORGANIZATIONS

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