Brian Harnish
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Objective: Obtain a position in Information Technology/Computer Science that provides ample opportunity to further develop problem-solving skills and advance my abilities in the computer science field.

Education: University of Mary Washington, Fredericksburg, VA
B.S. in Computer Science, Spring 2021
Business Administration minor 2021
Overall GPA: 3.45
Major GPA: 3.85

Work Experience:

May 2020 to March 2021- Software Engineering Intern at Perigean

- Created Admin web application to manage users and display analytics using Angular and CouchDB.
- Created and maintained systems in Rust making Context maps made of Nodes, Links, and Triples
- Communicated daily about the current state of issues and developments with multiple members of the team
- Deployed program using AWS EC2 and Lambda
- Researched how Machine Learning could be implemented in the current systems
- Full Time hours worked

March 2017 to August 2018- Sudley Club Lifeguard/Assistant Manager

- Lifeguard 5 days a week including special holidays
- Assistant manager, managed a team of 5 employees
- Opened/ closed the pool, managed money and bookkeeping
- Pool operator
- Swim coach, coached 5 to 10 kids between the ages of 2-14
- AED/ CPR certified; First-aid certified

Honors and Activities:

- Dean's List
- University of Mary Washington Varsity Swim Team
- Two-time Junior Nationals Qualifier for swimming
- Computer Science Club
- Known programming languages: Java, Python, Rust, C, JavaScript, Typescript, Angular HTML, CSS

- Proficient with PostgreSQL, Node.js/npm. Next.js, CouchDB
- Experience with Cloud computing services AWS and IBM cloud

Projects:

- Created a probability based, logic driven vacuum cleaner (PYTHON)
- Created an A* search program (PYTHON)
- Created a computer/memory simulation of a computer (C/ARM Assembly)
- Recreated Zork I, II, and III (JAVA)
- Created a Derivative Calculator (JAVA)

Related Coursework:

- CPSC 340: Data Structures and Algorithms (C++)
- CPSC 326: Theory of Computation
- CPSC 415: Artificial Intelligence (Python)
- CPSC 419: Machine Learning (Python)
- CPSC 305: Comp. Systems and Architecture (C, ARM Assembly, Python)
- CPSC 350: Applications of Data Bases (PostgreSQL, JavaScript, frontend/backend developing)
- CPSC 240: Object Oriented Design & Analysis (Java)
- CPSC 225: Software Development Tools
- Math 151: Calculus 1
- CPSC 405: Operating Systems

*References available upon request