

# ETHAN MCPHEE

Camano Island, Washington

Phone (360) 941-8933 | Email: ethan.mcphee@wsu.edu | github.com/emcphee

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## SUMMARY

Highly motivated undergraduate student working toward a BS in computer science. Experience programming in C, C++, C#, and Python with strong problem-solving skills, and excellent communication skills. Experience coordinating with a small team in multiple projects.

## EDUCATION

**Bachelor of Science in Computer Science;** GPA 3.85  
Washington State University, Pullman, Washington  
Presidents Honor Roll

Expected December 2023

### Relevant coursework:

Data Structures, Algorithms, Systems Programming, Object Oriented Programming, Linear Algebra, Software Engineering Principles, Computer Architecture, Probability and Statistics, and Discrete Mathematics

### **Associates of Arts and Science**

Everett Community College, Everett, Washington

June 2020

## SKILLS

**Languages:** Python; C/C++; C#; SQL

**IDEs:** Visual Studio; VSCode; PyCharm; CLion

**Other technologies:** Git; GitHub; Linux; Windows

**Certifications:** CompTIA Security+

## ACADEMIC PROJECTS

### **EXT2 FILE SYSTEM IMPLEMENTATION**

- Written in C, the file system simulator runs entirely from the terminal
- Can read and write to any valid ext2 disk given its file path
- Implemented functions include read, write, link, symlink, unlink, ls, pwd, creat, mkdir, rmdir, cat, cp, mv, mount, and umount

### **LIBRARY ASSISTANT APPLICATION**

- Developed Python application in a team of 5 with user interface and MySQL database
- Used incremental development model to organize workflow and thoroughly test features

## PERSONAL PROJECTS

### **SPICELANG PROGRAMMING LANGUAGE**

- Created a statically typed, statically scoped programming language built in C++
- Visualized solutions in charts to better understand requirements and design classes accordingly
- Built lexer, parser, and interpreter with expression evaluation, variable declaration, scoping, and working built-in functions

## ACTIVITIES

- 2023 CrimsonCode Hackathon upper division 2<sup>nd</sup> place
- Member of ACM (Association for Computing Machinery), Student chapter
- Crew member, Northwest Youth Corps (Trail maintenance at National and State parks)