Samuel Wales-McGrath

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EDUCATION

The Ohio State University | **Columbus, Ohio**

B.S. in Computer Science Engineering| **GPA:** 4.0   **MAY 2028**

Relevant Courses: Software Foundations, AP Computer Science A, Calculus 3

TECHNICAL SKILLS

Programming Languages: Java (Advanced), Python (Advanced), C (Intermediate), C# (Intermediate), C++ (Beginner)

Technologies: Windows XP/Vista/7/8/10, Linux

Frameworks: VsCode

PROJECTS

RESTroom Yelp | **Pearl Hacks Project**   **February 2024**

- Collaborated with a team of 4 and developed a fully functional web application with a dynamic **Javascript-based** front-end, an AJAX-based communication with a RESTful server-side API, a relational database that stores back-end application state, and an ORM layer to access data in the database
- Designed most of the front end & debugged **PHP**
- Awarded the Most Creative Award by Appian and Best Innovation in Collaboration Award by Red Ventures

Discover the New World Mini-game | **Personal Project**   **May 2023**

- Created a mini-game in **C#** for Xbox with immersive music and sound effects as well as designed the user interface using **Figma**
- Generated a random map based on a 2D array with multiple pages for the user to traverse on their west

PROFESSIONAL EXPERIENCE

Software Test Engineer Intern | **Qualtrics** | **Seattle, WA**   **Summer 2022**

- Implemented an extensible script in Python to automate project creation with static data on tests to improve pass rates and duration, ultimately speeding up software releases
  - Improved test times across 3 teams by nearly 400% with more stability
- Reviewed design docs and prototypes of an upcoming feature release to create nearly 50 test cases and performed manual testing and triaged 15 bugs with engineers

Teaching Assistant | **UNC-Chapel Hill** | **Chapel Hill, NC**   **Aug 2021 - Present**

- Mentor over 275 Introduction to Programming students, explaining challenging concepts to both Computer Science and non-technical majors
- Coordinate office hours and lesson plans in conjunction with 6 other teaching assistants in order to ensure widespread availability and quickly return tests and assignments to students

LEADERSHIP EXPERIENCE

Director of Promotion | **Pearl Hacks** | **UNC-Chapel Hill**   **Apr 2020 - Present**

- Manage and delegate the marketing branch (directors and committee members) to establish Pearl Hack's mission to empower women and gender non-conforming beginners in tech
- Develop and execute the marketing strategy through social media, design, and in-person campaigns which fostered 1500+ registrations with a 60% turnout rate from representation from 30+ countries

- Partnered with 3 other branches and 4 other chair members to discuss how the marketing strategy plays into the function of the organization as a whole