Grace Hopper

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EDUCATION

The University of North Carolina at Chapel Hill | Chapel Hill, NC

B.S. in Computer Science | **GPA:** 3.7/4.0 **May 2025**

Relevant Courses: Computer Organization, Data Structures, Foundations of Programming, Algorithms & Analysis

TECHNICAL SKILLS

Programming Languages: Java (Advanced), Python (Advanced), C (Intermediate), C# (Intermediate), C++ (Beginner)
Operating Systems: Windows XP/Vista/7/8/10, Linux

RELEVANT EXPERIENCE

UNC Department of Computer Science | **Teaching Assistant** | **Chapel Hill, NC** **Aug 2022 - 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 to ensure widespread availability and quickly return tests and assignments to students

Software Test Engineer Intern | **Qualtrics** | **Seattle, WA** **May 2023 - August 2023**
- 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. Performed manual testing and triaged 15 bugs with engineers

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

LEADERSHIP EXPERIENCE

Director of Promotion | **Pearl Hacks** | **UNC-Chapel Hill** **Apr 2023 - 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