

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