

# Grace Hopper

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## EDUCATION

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

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

**May 2026**

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

## TECHNICAL SKILLS

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

**Operating Systems:** Windows XP/Vista/7/8/10, Linux

## RELEVANT EXPERIENCE

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**UNC Department of Computer Science | Teaching Assistant | Chapel Hill, NC**

**Jan 2024 - 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 2024 - August 2024**

- 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

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**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

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**Director of Publicity | Pearl Hacks | UNC-Chapel Hill**

**Apr 2024 - 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