

Grace Hopper

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EDUCATION

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

(Intended) B.S. in Computer Science | GPA: 3.7/4.0

May 2027

Relevant Courses: Introduction to Programming, Data Structures, Discrete Structures, Multivariable Calculus

TECHNICAL SKILLS

Programming Languages: Python (Advanced), Java (Advanced), HTML (Intermediate)

Technical Tools: Git, JUnit, Figma

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

PROJECTS

RESTroom Yelp | HackNC Project

October 2023

- 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

November 2023

- Created a mini-game in **Java** with immersive music and sound effects; designed the user interface using **Figma**
- Generated a random map based on a 2D array with multiple pages for the user to traverse

PROFESSIONAL EXPERIENCE

Mathematics Tutor | Self-Employed | Chapel Hill, NC

September 2023 - Present

- Developed personalized lesson plans and tailored curriculum for high school and middle school students, demonstrating adaptability and a keen understanding of individual learning needs
- Dedicated 5 hours per week to tutoring, fostering a supportive learning environment, and contributing to the academic success of students in mathematics courses, such as Calculus and Trigonometry

Server | Mr. Tokyo Japanese Restaurant | Chapel Hill, NC

August 2023 - Present

- Manage a demanding workload, serving food at a Japanese sushi restaurant for 20 hours per week while maintaining a high level of customer satisfaction through effective communication and teamwork
- Proactively contribute to the overall cleanliness and organization of the restaurant, showcasing strong attention to detail and dedication to creating a positive dining experience for patrons

EXTRACURRICULAR EXPERIENCE

Promotion Committee | Pearl Hacks | UNC-Chapel Hill

August 2023 - Present

- Spearheaded the creation of compelling media content for a hackathon organizing team, showcasing strong promotional skills. Coordinate a successful photoshoot involving 20 participants to enhance the event's visual appeal
- Involved in the day-of photography execution and strategic planning of marketing campaigns, contributing to the overall success and visibility of the hackathon through creative and effective promotional initiatives

Alan Turing

[Email] | [Phone] | [LinkedIn Profile] | [GitHub Profile] | [Portfolio (if applicable)]

EDUCATION

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

May 2027

Master of Science in Computer Science

- Relevant Coursework: Machine Learning, Distributed Systems, Algorithms, Cloud Computing
- Research: Developing scalable deep learning models for real-time fraud detection in financial transactions (advised by Dr. [Advisor's Name])
- Thesis (if applicable): "**Enhancing Anomaly Detection in Large-Scale Systems Using AI**"

North Carolina State University | Raleigh, NC

May 2022

Bachelor of Science in Computer Science and Environmental Science

Honors: Dean's List (all semesters), Magna cum Laude

INDUSTRY EXPERIENCE

IBM – Research Triangle Park, NC

Software Engineer

June 2022 – July 2024

- Designed a cumulative aggregated dataset hosted in BigQuery and GCS to unify multiple data pipelines for podcast consumption metadata, centralizing data sources and reducing computational overhead for various metrics
- Implemented the dataset using Scala and Apache Beam APIs, achieving a **60%** compression versus the raw metadata source and enabling faster, more efficient queries
- Analyzed **hundreds** of trending, book-based playlists and conducted A/B tests to validate targeted audiobook campaigns, uncovering avenues for audience growth

Fidelity Investments – Durham, NC

Software Engineer Intern

May 2021 – August 2021

- Engineered a **React and Node.js dashboard** for real-time stock analysis, improving data refresh rates by 50%.
- Created RESTful APIs using **Java Spring Boot** to integrate investment analytics with customer dashboards
- Developed SQL queries to optimize **financial data retrieval**, reducing query execution time by 35%

RESEARCH EXPERIENCE

UNC-Chapel Hill – Department of Computer Science (Cybersecurity Lab)

Graduate Research Assistant

January 2025 – Present

- Investigate the impact of **adversarial attacks on neural networks**, proposing a **defensive training approach** that improved model robustness by **18%**
- Conduct **data preprocessing and feature engineering** on large-scale cybersecurity datasets using **Spark and Pandas**
- Presented findings at the **IEEE Workshop on Machine Learning for Security**

TECHNICAL SKILLS

Languages: Python, Java, C++, SQL, JavaScript

Frameworks/Libraries: React, Node.js, TensorFlow, Pandas

Tools: Docker, Kubernetes, Git, AWS, PostgreSQL

Methodologies: Agile, Test-Driven Development, CI/CD

Hedy Lamarr

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EDUCATION

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

May 2026

B.S. in Computer Science, Statistics

Relevant Courses: Machine Learning, Data Structures, Algorithms, Files & Databases, Object-Oriented Programming

TECHNICAL SKILLS

Languages: C, Java, JavaScript, Python, R, Scala, SQL

Technologies: Docker, Flask, Git, Node.js, PyTorch, React.js, REST APIs

Tools: Apache Beam/Hadoop/Spark, BigQuery, GCP, Jira, Jenkins, Jupyter, Snowflake, Tableau

EXPERIENCE

Spotify | New York, NY

June 2025 - Aug. 2025

Data Engineer Intern

- Designed a cumulative aggregated dataset hosted in BigQuery and GCS to unify **multiple** data pipelines for podcast consumption metadata, centralizing data sources and reducing computational overhead for various metrics
- Implemented the dataset using Scala and Apache Beam APIs, achieving a **60%** compression versus the raw metadata source and enabling faster, more efficient queries
- Analyzed **hundreds** of trending, book-based playlists and conducted A/B tests to validate targeted audiobook campaigns, uncovering avenues for audience growth

UNC Department of Computer Science | Chapel Hill, NC

Aug. 2024 - Present

Lead Teaching Assistant

- Hosting **10** weekly office hours and grading exams for over **200** students enrolled in Object-Oriented Programming
- Managing and coordinating support tasks for **12** undergraduate teaching assistants

Apple Inc. | Cupertino, CA

May 2024 - Aug. 2024

Data Engineer Intern

- Pioneered a multi-level Tableau dashboard system for Apple Maps, automating project status reporting and KPI monitoring for **10+** regional sub-teams
- Streamlined complex data sources in Hive using data wrangling techniques, reducing metric reporting time by **95%**
- Evaluated and presented findings and recommendations for data infrastructure optimization to senior VPs

Comtech Telecommunications | Remote

May 2023 - May 2024

Software Engineer Intern

- Built and deployed **8** new front-end features and improvements to the emergency locator web platform within **6 months**
- Automated **100%** of the backend API test suite using Node.js and Chai and implemented real-time status monitors for critical APIs, leading to a **95%** reduction in error response time

PROJECTS

RoadRisk | R, Python

December 2024

- Interpreted over **6 million** traffic incident records and built Random Forest, Naive Bayes, Logistic Regression, and SVM models to predict accident severity, reaching an accuracy of **83%**
- Employed dimension reduction and random undersampling techniques to improve model performance by **+10%**

Flaming Insights | Python, Tableau

September 2024

- Conducted data analysis on **1.88 million** wildfire records spanning **24 years**, revealing a significant increase in the frequency of wildfires, with an annual growth rate of **3.5%**
- Identified the **top 5** fire-prone counties and found that Human Activity was the leading cause in **64%** of cases

Ada Lovelace

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EDUCATION

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

May 2026

B.S. in Computer Science, Minors in Data Science and Studio Art | GPA: 3.7/4.0

- **Courses:** Files and Databases, Modern Web Development, Mobile Operating Systems, Computer Organization, Data Structures, Algorithms & Analysis, Foundations of Programming
- **Honors:** Dean's List, Honors Carolina

TECHNICAL SKILLS

Languages (ordered by proficiency): Java, Python (Pandas, Matplotlib, Plotly, pytest), JavaScript, C, Swift, TypeScript

Tools and Frameworks: Node.js, React.js, AngularJS, Docker, PyTorch, Git

RELEVANT EXPERIENCE

UNC-Chapel Hill Department of Computer Science | Chapel Hill, NC

Aug. 2024 - Present

Undergraduate Teaching Assistant - Grading Lead

- Mentored **over 600** students enrolled in Introduction to Programming, explaining challenging concepts and fundamental programming knowledge to both Computer Science and non-technical majors
- Graded up to 6 exams a semester and developed **Python scripts** to organize large-scale grading efforts, while simultaneously hosting 10+ hours of office hours a week for students

Fidelity Investments | Durham, NC

May 2024 - Aug. 2024

Software Engineering Intern

- Developed a web application using **Node.js** and **Python** frameworks for improving customer transaction efficiency by up to 10 seconds through optimized backend processes
- Collaborated with one other intern in an **Agile** environment to develop scalable backend features and improve **API** and **SQL** response time

PROJECTS

MusicBoxd | HackNC

Oct. 2024

- Partnered with a team of 3 and developed a fully functional **iOS App** with a dynamic **Swift** interface, real-time database retrieval using **Firebase**, and **Genius'** API for song and artist retrieval
- Awarded the Hack for Connectivity by **Pendo** and third place overall for the whole hackathon

Discover the New World | Personal Project

May 2023

- Created a mini-game in **C#** for Xbox with immersive music and sound effects, and 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

UNC CS for Social Good | Chapel Hill, NC

Jan. 2024 - Present

CATCH Project Manager

- Lead weekly meetings for CATCH, maintain project goals, and develop timelines for stages and deployment
- Contribute to backend development on a web-based application for a local non-profit, emphasizing database efficiency and optimized API calls to improve user experience and reduce wait time