Rayan Hayle

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EDUCATION

Columbia College, Columbia University

B.S. Computer Science, Minors in Data Science and Studio Art | GPA: 3.6/4.0

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

Proficient in: Java, Python (Pandas, Matplotlib, Plotly, pytest), JavaScript, C, Swift, TypeScript

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

RELEVANT EXPERIENCE

Undergraduate Teaching Assistant - Grading Lead

UNC-Chapel Hill Department of Computer Science

Aug. 2024 - Present

• Mentored 600+ students in Introduction to Programming, explaining complex concepts to Computer Science and non-technical majors

• Graded up to 6 exams per semester and developed Python scripts to streamline large-scale grading efforts while hosting 10+ office hours weekly for students

Software Engineering Intern

Fidelity

May 2024 - Aug. 2024

• Developed a web application using Node.js and Python frameworks to improve customer transaction efficiency by up to 10 seconds through backend process optimization

• Collaborated with another intern in an Agile environment to develop scalable backend features and improve API and SQL response time

PROJECTS

MusicBoxd | HackNC

Oct. 2024

• Collaborated with a team of 3 to develop 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 in the 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 user exploration

LEADERSHIP EXPERIENCE

Project Manager

CATCH, UNC CS for Social Good

Jan 2024 - Present

• 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, focusing on database efficiency and optimized API calls to improve user experience and reduce wait time