

Thomas Barry

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[Personal Projects](#)

SUMMARY:

Student at University of North Carolina at Chapel Hill with advanced background in Computer Science and Mathematics. I give my all towards meeting and exceeding my goals. As an example, in high school I graduated #1 in my class and was named valedictorian. I achieved this through dedication, discipline and hard work. At my university, I continued giving my all to my academic pursuits, and now hope to leverage my Computer Science expertise to build amazing projects.

EDUCATION:

University of North Carolina at Chapel Hill

September 2019 - December 2023

- Carolina Scholarship/Dean's list/Honors College/Bachelor of Science in Computer Science

RELEVANT COURSE WORK:

- | | |
|--------------------------------------|---------------------------|
| • Analysis of Data Structures | • Modern Web Programming |
| • Software Engineering Laboratory | • Algorithms and Analysis |
| • Data Science in the Business World | • Discrete Structures |
| • Computer Organization | • Mathematical Analysis |

MAJOR PROJECTS

- **Personal finance project** (in development)
 - Thoroughly documented methods and tested code with over **90%** coverage
 - Added **GUI** with menu and features for user input and validation
 - Designed program to scale, includes long term data storage and retrieval
- **Personal finance project web** (in development)
 - Implemented web tool version using **NodeJs**, hosted on server with multiple endpoint routes
 - Added navigation and second progress bar tool with dynamic range from 0-100%
 - Designed and styled website with **UI/UX** in mind (High quality and responsive)
- **Connect Me HackNC2023**
 - Competed in team of 4 in one of the largest Hackathons in NC with **300+** participants
 - Built Mobile application that uses Google Maps **API** to randomly generate an activity location for users based off their interests, and **Firebase** to store the Users and Activities in remote database
 - Our team **won** the award for Best Diversity, Inclusion, and Belonging project
- **Semester Long XL Lab Check-In Service**
 - Collaborated in teams of 2 to develop website using Angular framework, with Dependency Injection
 - **FastAPI** routes to receive data and Python files to process and validate the data
 - Utilizes SQLAlchemy with **ORM** to store checkins and registrations in PostgreSQL relational database
- **Custom responsive portfolio website hosted on GitHub**
 - Included CSS animations, multiple pages and links to major projects, and downloadable pdf
- **Java GUI application for TicTacToe, Connect4, and Othello games**
 - Emphasized event handling, followed OOP best practices, and built functional GUI for each game

TECHNICAL SKILLS:

- **Coding Languages and Skills:** Java (Proficient), Python (Intermediate), OOP, HTML (Proficient), CSS (Proficient), NodeJs (Intermediate), Angular (Intermediate), and Javascript (Beginner)
- **Tools:** Eclipse, IntelliJ, Terminal (CLI), Visual Studio Code, GitHub (Git), Docker, JUnit, Android Studio

WORK EXPERIENCE:

Wyzant

October 2021 – Present

- Tutored coding languages for **360+** hours across 2 years on Wyzant, a premier tutoring platform
- Maintained **5** star rating based on **200+** lesson ratings and received glowing reviews from students
- Taught 50+ students Java programming, helping them complete assignments and better understand key concepts from recursion, to complex data structures, to JavaFX and Swing