Thomas Barry

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SUMMARY:
Senior at University of North Carolina at Chapel Hill with advanced background in Computer Science and Mathematics. Experienced in full stack web development, mobile applications, and database management. Ranked #1 in high school class of over 400 students, and was named valedictorian. Achieved this through dedication, discipline and hard work. Passionately pursued mastery of Computer Science throughout undergraduate career, and hoping to now leverage expertise to build innovative and impactful projects.

EDUCATION:
University of North Carolina at Chapel Hill   September 2019 - December 2023
Bachelor of Science in Computer Science
- 3.57 Cumulative GPA
- Member of Honors College
- Awarded Prestigious Carolina Scholarship
- Dean's List Recipient

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

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

MAJOR PROJECTS
- **Personal Finance Project** (In Development)
  - Tested code with over **90%** coverage and thoroughly documented methods
  - Added **GUI** with menu and features for user input and validation
  - Designed program to scale, including long term data storage and retrieval
- **Personal Finance Project Website** (In Development)
  - Implemented web tool version using **NodeJs**, hosted on server with multiple endpoint routes
  - Added navigation and created second progress bar tool with dynamic range from 0-100%
  - Designed and styled website with **UI/UX** in mind (High quality and responsive)
- **Mobile App: ConnectMe**
  - Competed in a team of 4 in one of the largest coding competitions 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 a remote database
  - **Won** 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
  - Deployed **FastAPI** routes to receive data and **Python** files to process and validate the data
  - Utilized SQAlchemy 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 Interactive Games**
  - Emphasized event handling, followed OOP best practices, and built functional GUI for each game

WORK EXPERIENCE:
Wyzant Tutoring Service   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