

ETHAN COOMBER

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EDUCATION

Middlebury College

Bachelor of Arts, Computer Science, Mathematics Minor

Middlebury, VT

May 2023

- **Honors:** *Magna Cum Laude* (3.79), Computer Science departmental Honors
- **Relevant Courses:** Parallel Computing, Systems Programming, Computer Architecture, Data Structures, Algorithms and Complexity, Artificial Intelligence, Data Structures, Machine Learning, Theory of Computation.

EXPERIENCE

Software Engineering Intern, Publicis Sapient

Summer 2022

- Deployed a trading platform with real-time stock data and high-speed trade executions.
 - Utilized React Native and Figma for frontend interface/design and Java Spring Boot, GraphQL, and PostgreSQL for backend development.
 - Completed an intensive 3-week full stack development course, gained experience in frontend technologies (React, Angular), databases (MongoDB, NoSQL, MySQL), and backend services (REST APIs, Spring Boot).

Research Assistant III, Leaders in Pharmaceutical Business Intelligence (LPBI)

Summer 2021

- 1st Project: Podcast Library Development of Interviews with Scientific Leaders
 - Explored and made key decisions regarding platforms to support text to audio conversion for 150 articles.
 - Created and presented conversion protocols to the company and external investors monthly.
- 2nd Project: Twitter Analytics for LPBI's two Twitter Handles
 - Ran in-depth analytics and visualized key data regarding LPBI's 2 major Twitter handles using Excel and R Studio.

Course Tutor, Middlebury Computer Science Department

Fall 2022 – Present

- Supported 60+ students by offering additional support in undergraduate computer science courses using C.
- Collaborated with professors and other course tutors to coach students most effectively.

Player, Middlebury Men's Varsity Soccer

Fall 2020 – Fall 2022

- Spend 15 hours per week plus travel training and competing with the team.

Mentor, MiddCAM

Spring 2022 – Spring 2023

- Coached Middlebury High School students on how to approach the college application process.
- Supported mentee in writing essays and researching schools to make educated decisions throughout the process.

TECHNICAL SKILLS

Languages

Java, C, C++, Python, JavaScript

Databases

SQL, Mongo DB, Spring, PostgreSQL, Heroku

Frameworks

React, HTML, CSS

PROJECTS

- **Stock Tracker:** ([deployed link](#)) ([source code](#))
 - This website allows users to add stocks to watchlist and visualize the movement in stock prices.
 - Frontend: React | Backend: Spring Boot | Database: PostgreSQL | Deployment: Heroku (backend), Vercel (frontend)
- **Quiz Platform:** ([deployed link](#)) ([source code](#))
 - This website allows users to take quizzes on a variety of topics. They can track their progress, add questions to topics, and allow other users access their quizzes.
 - Frontend: React | Backend: JavaScript | Database: Firestore | Authentication: Firebase Authentication
- **Task Parallelization:** ([source code](#))
 - This project allowed me to explore the capabilities of parallelism. The code was written in C++ and explored different threading techniques. 4 threading techniques were implemented.

ADDITIONAL

Interests: Tennis, Skiing, Soccer, Sports Analytics, Golf, Traveling.