

NATHANAEL OH

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EDUCATION

Johns Hopkins University

BS

Baltimore, MD

May 2025

- Major in Computer Science.
- GPA: 3.81.
- Dean's List ('21-'22, '22-'23).

SKILLS

- Programming Languages: Java, C, C++, Full-Stack Web Development (HTML, CSS, JS/TS, see portfolio website for full web tech-stack), Python.
- Other: Data Structures/Algorithms and Data Analysis with numpy, pandas, and matplotlib in Python, along with Microsoft Excel.

PROJECTS

Flashcarder, JHU

Winter 2023

- Implemented both the frontend with React and Zustand and backend with NestJS and PostgreSQL for a flashcards application.
- Recorded 5 concurrent users out of 10 total users to help study for JHU finals.

Nexus AI, JHU Carey Business School

Winter 2023

- Coded the ExpressJS server for a React-based designed to take in a CSV containing quarterly earnings as input to predict the earnings for the next quarter for a team of 5.
- Integrated the Python scripts developed by the data-analysis team for the weighted-averaging algorithm into the server.

Manga-Cover App, JHU

Fall 2023

- Developed API calls to OpenAI for the JavaScript front-end of a school project.
- Improved an existing Graphical User Interface to improve convenience and user-responsiveness while users await the app's asynchronous REST calls to OpenAI's endpoints with an average of 3.2 seconds between each call to DALLE.
- Attracted over 20 students at the UVA art club to use the app to gain inspiration for a manga project.

Bio-Match, JHU

Fall 2023

- Implemented the backend for a clinical-trials matcher web-app and coordinated the connection to the frontend with a team of 4.
- Connected the app to a robust MongoDB backend with the potential to scale to connect 100s of users.
- Designed the backend clinical-trial matching algorithm based on certain criteria users indicated on sign-up.

PROFESSIONAL EXPERIENCE

Math/Science Tutor

Online

Paper Education

January 2022 - Present

- Tutor math and science online to 1-5 K-12 students simultaneously in a fast-paced classroom setting.
- Plan an average of 13 individualized personal lessons for each student per shift along with improvising the lessons on-the-fly as each tutoring session progresses.

Database Management Intern

Washington D.C.

Children's National Hospital, Washington D.C.

June 2023 - August 2023

- Cleaned up Excel databases maintained for research for the division of Plastic Surgery.
- Employed a combination of Excel and Python with the pandas and numpy libraries.
- Wrote basic 3D modeling scripts for the open-source Slicer3D visualizer.