**NATHANAEL OH**

(703)‑955‑6637 • [noh8@jhu.edu](mailto:noh8@jhu.edu) • 1441 Hampton Hill Cir, Mclean, VA 22101 • [https://www.linkedin.com/in/nathan‑oh‑a90b19232/](https://www.linkedin.com/in/nathan-oh-a90b19232/)

**education**

**Johns Hopkins University** Baltimore, MD

*BS* 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.