**NATHANAEL OH**

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**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**

**Solution-Blitz,** JHU Spring 2024

* Worked across the entire tech-stack from the VSCode Extension API to the Express Backend, with a focus on the deployment on Google Cloud Platform using serverless Cloud Run and Cloud functions to power our applications.

**HopEats,** JHU Spring 2024

* Worked on the UI and the Firebase database schema for our Yelp-like mobile application in Android Studio.

**QYay!,** JHU Spring 2024

* Built the entire fullstack application for a homework assignment that marked my first dive into working with Websockets with ExpressJS.

Value-Stack, JHU Spring 2024

* Made a basic concurrent server from scratch in C++ and C to handle basic transactional requests from multiple client applications.

**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

* Created 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.

**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.