

# 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.