**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: 3.70

**Professional Experience**

**Backend / DevOps engineer: NestorHealth** Fall 2023 – current

* Implemented a FHIR R4 sandbox server in nodejs for testing purposes
* Built an analytics ETL pipeline for FHIR data.
* Developed an SQL-on-FHIR engine to pipe native SQLite queries over native nested FHIR JSON data.
* Maintain a NextJS dashboard app for facilitating user-specific ETL pipelines.

**Web Developer Contractor: Personal Digital Spaces** Summer 2024 - onwards

* Contracted to handle UI/UX, React, backend, and DevOps for a testnet cryptocurrency faucet application.

**PROJECTS**

**Medfetch – Web Application**

* Developed the fullstack Remix application and NodeJS authorization service to showcase fetching patient documents from external EHR systems
* Raised over $20k with this application for our first round of demos.

**Testnet Faucet App – Web Application**

* Implement server-side rate limiting on testnet faucet calls using NodeJS and Redis.
* Migrate legacy React codebase to React 18 and NextJS and set up a testing pipeline for future developers that will work on the application.
* Overhaul CSS styling with a priority on responsive web design.
* Integrate unit and end-to-end testing into client’s development workflow.

**IBFT Cat Pictures – Web Application**

* Built a multithreaded simulation of the Istanbul Byzantine Fault Tolerance consensus algorithm in C++.
* Wrote the NodeJS C++ bindings to allow the React frontend to start the simulation through an API call.

**Solution-Blitz! – Electron application**

* Automate testing and deployment of a VSCode extension that brings Leetcode to the code editor.
* Wrote the backend code for checking arbitrary user code written in JavaScript or Python.