

NATHANAEL OH

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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.