Nam (Logan) Nguyen

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WORK EXPERIENCE

Full-stack software engineer internship Virginia, United state — Sep. 2022 – Dec. 2022

Jobs4Interns – Domenix

- Migrated codebase from **React class** to **functional components**, improving code maintainability and performance.
- Utilized the **MERN stack** to design and implement **RESTful APIs**, allowing for efficient data transfer between the front-end and back-end.
- Implemented **React-Redux** to manage the application state and improve code scalability and organization.

EDUCATION

Green River College Auburn, WA — Jan. 2017 - May 2019

Associate in Arts in Information Technology — **CGPA: 3.94/4.00**

- Relevant course work: Front-end Web programming, Java OOP, Data Structures, SQL Database

State University of New York (SUNY), College at Oswego — Jan. 2021 – exp. May. 2023

Bachelor of Science in Computer Science — **CGPA: 4.00/4.00**

- Relevant Courses: System programming (C), Software Engineering (Java, React, Liberty), Algorithms and Data Structures

PROJECTS

Support Who You Love (SWYL) *(Full stack + Blockchain)*

(Capstone project) – https://github.com/swyly - https://swyl.vercel.app

- Led the development of the **SWYL** platform as a solo developer, utilizing front-end technologies such as **Next.js**, **TypeScript**, and **React.js** for efficient and user-friendly user experience
- Implemented **3 restful-based microservices** for the backend using **Golang** and **MongoDB**, providing a robust and scalable infrastructure for **off-chain data** management and **API services**
- Incorporated advanced **security measures** by combining the **golang-jwt** library with **cryptographic functions** from the **go-ethereum** library, ensuring secure user authentication and authorization, as well as safeguarding sensitive data
- Developed and deployed **5 Solidity smart contracts** on the **Polygon Network**, allowing for **low-cost** and **efficient NFT creation** and **management**, as well as supporting **club membership** and **donation functionalities**

Calibrated Peer Review *(Java Back-End)*

(Course/Team Project) – https://github.com/tenbergen/CSC480-22S

- Implemented a microservice architecture utilizing **IBM's Open Liberty** application server to host each individual service
- Applied token-based authentication mechanisms to all system microservices by integrating **MicroProfile JWT** to authenticate, authorize, and identify users based on different roles
- Developed clean and efficient **RESTful APIs** to provide the React client application with dynamic data based on user inputs and HTTP requests

Data Analytic Yelp App *(Full-Stack)*

(Course/Individual Project) – https://github.com/logann131/CSC-365-fullstack-app-III

- Utilized the **Java Spring Boot** framework to create a standalone resource server for hosting data analytics from a dataset retrieved from **Yelp**.
- Incorporated **customized B-Tree data structure** and **MySQL Docker** image to store all the data and information to provide faster data lookup time and optimize the memory space in disk

SKILLS

Programming	Java • Python • JavaScript (ES6) • TypeScript • C • C++ • SQL • Dart • PHP
Front-End	NextJS • React • HTML5 • CSS • Tailwind • Styled Component • Bootstrap • WordPress
Back-End	Golang • Open Liberty • Spring Boot • NodeJS • Express • MongoDB • MySQL • Rest API • Firebase
Blockchain	Ethereum • Solidity • Hardhat • Waffle • Ethers.js • Truffle
Deployment	AWS • Netlify • Heroku • Docker