Nam (Logan) Nguyen

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WORK EXPERIENCE

Web Development Intern, Syracuse, New York — Feb. 2022 - May. 2020
SUNY Center for Professional Development

- Re-designed and maintained a network of 30 WordPress sites
- Created and launched 4 WordPress blogs
- Monitored website performance and handled troubleshooting and WordPress issues

EDUCATION

State University of New York (SUNY), College at Oswego — Jan. 2021 – exp. Dec. 2022
Pursuing Bachelor of Science in Computer Science — **CGPA: 4.00/4.00**

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

PROJECTS

Calibrated Peer Review *(Java Back-End developer)* *(Links in the last page)*
(Course/Team Project)

- Utilized **IBM Open Liberty** Java framework to divide the back-end server into seven **microservices** using features of **Eclipse MicroProfile** and **Jakarta EE** platforms
- Single-handedly applied **token-based authentication mechanisms** to all system microservices by implementing **MicroProfile JWT** to authenticate, authorize, and identify users based on different roles
- Optimized **NoSQL** queries by utilizing the usage of **MongoDB Java Driver** to improve data look-up processes and reduced the downtime exercising database's CRUD operations
- Built clean and efficient **RESTful APIs** that served data to the **React** client application based on dynamically chosen user inputs and HTTP requests
- Actively communicated and reached out to teammates during all stages of the development process to offer extra help on assigned features so that our team can provide best estimate of feature delivery
- Worked closely with team Graphical User Interface at the end of every sprint to help contribute extra **JavaScript** and **CSS** to the **React** front-end to boost up application's responsiveness

Data Analytic Yelp App *(Full-Stack Developer)* *(Links in the last page)*
(Course/Individual Project)

- Successfully implemented **Java Spring Boot** framework to create a standalone resource server to host all the data analytics from a dataset retrieved from **Yelp**
- Integrated **customized B-Tree data structure** to store all the data and information to provide faster data lookup time and optimize the memory space in disk
- Utilized **Java IO/NIO** to persistently write data to **secondary memory** to mitigate calculating and processing procedures every time the program is executed
- Applied the combination of the modern front-end framework, **React,** and the type-safe programming language, **TypeScript,** to mitigate type-error in runtime and enhance application performance and responsiveness
- Took advantage of the **open-source data visualization library, D3.js,** to graphically display graph-like charts and trees to boost up user experience
- Utilized **Cosine Similarity** metric and customized **Hash Table** data structure to calculate the similarity rate between records then from there look up similar records based on chosen user inputs

- Implemented **graph theory** to form up graphs based on geographical distances then integrated **Dijkstra's algorithm** to find the geographically shortest paths based on similarity rates between two chosen nodes

Dev Meet Up *(Full-Stack)* *(Link in the last page)*
(Individual)

- Launched a dynamic social network for developers to connect using the **MERN stack**
- Incorporated **React-Redux store** for highly scalable application-level state management that allows access to user, profile, post and authentication states globally
- Created **Cloud-Native Database** using **MongoDB Atlas** that effectively stores and accesses schema-less users' massive information
- Implemented an authentication system with cryptography using **JSON Web token** to enhance higher privacy protection

Hashtology *(Link in the last page)*
(Individual)

- Successfully established a user-friendly decentralized application upon the **Ethereum blockchain** that let people transfer crypto currency around the world
- Utilized the modern blockchain development framework, **Hardhat,** to compiled, debug, and deploy the application
- Customized a smart contract using an industry standard programming language, **Solidity**
- Applied a modern frontend framework, **React|Typescript**, to mitigate type-errors at runtime

Crowd-source Transcription (Full-Stack) *(Link in the last page)*
(Course/Team project)

- Worked as a head coder in a team of 4 for four months to design and develop a **LAMP stack** web application for SUNY Oswego library to let the public crowd source transcribe old letters/papers written in the history
- Implemented **Omeka-S themes** and incorporated **custom CSS** to improve the visibility of the UI making the site intuitive for non-tech savvy elderly
- Integrated **Mediawiki** software and the **Scripto** plugin to achieve the **crowd-source-transcribe** functionality
- Deployed and migrated the project to **AWS** eliminating the deployment fee and a majority of downtime

SKILLS

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

LINKS to the Projects:

Personal Portfolio (ReactJS side project)

Live: https://namnguyen31.com

GitHub: https://github.com/lgad31vn/MyPersonalWebsite

Calibrated Peer Review (course/team project)

Live: http://moxie.cs.oswego.edu:13125

GitHub: https://github.com/tenbergen/CSC480-22S

Data Analytic Yelp App (course/individual project)

Version 1.0 demo: https://github.com/lgad31vn/CSC-365-fullstack-app-I#project-showcase

Version 2.0 demo: https://github.com/lgad31vn/CSC-365-fullstack-app-II#project-showcase

Version 3.0 demo: https://github.com/lgad31vn/CSC-365-fullstack-app-III#react-d3-graph-showcase

Dev Meet Up (full stack side project)

Live: http://serene-retreat-94411.herokuapp.com

GitHub: https://github.com/lgad31vn/MERN-WebDevMeetUp

Hashtology Decentralized App (blockchain side project)

Demo: https://github.com/lgad31vn/Hashtology-dapp#demo-preview

Crowd-sourced Transcription (course/individual project)

GitHub: https://github.com/lgad31vn/Hashtology-dapp

To see more projects, visit my **GitHub** at:

https://github.com/lgad31vn