Johnny Ngo

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EDUCATION

Bachelor of Science in Computer Science

University of Central Florida, Orlando, FL

December 2022

GPA: 3.7/4.0

• Relevant Coursework: Operating Systems, Process Object-Oriented Software, Secure Software Development Assurance, Concepts of Parallel and Distributed Processing, Database Systems (SQL)

SKILLS

Languages: C, Java, JavaScript, HTML/CSS, SQL

Frameworks and Libraries: React.js, Express.js, Node.js, D3.js, Jest.js

Tools: Git, Jira, Expo, Figma, MongoDB

TECHNICAL PROJECTS

Algorithm Viewer

https://algorithmviewer.com/

- Utilized **D3.js** and **React.js** to develop interactive, step-by-step visualizations of data structures and algorithms, enhancing data visualization for computer science students and improving their understanding and retention of important concepts.
- Optimized the algorithm visualizer's usability by implementing interactive functionalities.
- Migrated legacy code base from Unity to D3.js, leading to a 50% reduction in runtime for the visual loading pages.
- Deployed unit tests utilizing **Jest.js** to insure the stability of the code.

Sun Bay Hospitality Platform

https://github.com/jxngo/Sunbay-Hospitality-Platform.git

- Developed a hospitality web and mobile application using **MERN** stack.
- Created an Android mobile user interface for guest ordering utilizing **React.js** and **Expo**.
- Implemented CRUD with RESTful API endpoints, utilizing **Node.js**, **Express.js**, and **SQL** for seamless data retrieval and manipulating.
- Devised the database with **MongoDB**.

Concurrent and Sequential Logarithmic Algorithm Research

- Led a designated research team consisting of 5 undergraduates to conduct research on concurrent development.
- Utilized **Java** Multithreaded framework Fork/Join (JUC) and its subclass Recursive Action, to conduct performance tests between sequential and multi-threaded logarithmic sorting algorithms.
- Coordinated the project by delegating tasks, conducting regular standups, scheduling sprints, and estimating task durations.

WORK EXPERIENCE

Instructional Tutor
Orange County Public School, Orlando, FL

March 2022 - Present

- Facilitate the development of students' fundamental understanding of core mathematical concepts.
- Create proficiency evaluations to gauge students' mastery utilizing mathematical tools with the aim of augmenting their mathematical expertise.
- Improved the school's algebra test scores, resulting in the school being ranked number one in Orange County.

AWARDS

First Prize, Senior Design Showcase

December 2022

University of Central Florida, Orlando, FL

- Awarded 1st in a showcase competition among UCF Fall 2022 Senior Design computer science projects.
- Presented Algorithm Viewer at Senior Design Semi-Finalist Showcase to industry judges.