

Johnny Ngo

johnnyhoangngo@gmail.com | [johnnyhngo](#) |

EXPERIENCE

Software Developer I

2024

Management Computer Services, Inc. (PHA-Web)

Sparta, WI

- Responsible for development, testing, and debugging on an object-oriented web-based .NET application.

EDUCATION

University of Central Florida

Orlando, FL

Bachelor of Science in Computer Science

TECHNICAL SKILLS

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

Frameworks and Libraries: React, NodeJS, Express, Jest

Developer Tools: Git, Jira, MongoDB, Microsoft Office (Excel), AWS, Docker, LaTeX, Figma

Infrastructure Tools: Terraform

Operating Systems: Linux (Ubuntu 18 and 20), MacOS

Relevant Coursework: Operating Systems (Linux, Virtual Machine), Process Object-Oriented Software (JSON, Scrum Agile Methodology, OOD), Secure Software Development Assurance, Concepts of Parallel and Distributed Processing, Database Systems (SQL), Artificial Intelligence (Python)

PROJECTS

Pokify Full Stack | *JavaScript (React, NodeJS, Express)*

- Developed Pokify, a web application that connects and displays users' top 6 Spotify artists to their corresponding Pokemon types.
- Deployed secure authentication flow with OAuth for retrieving and storing user tokens using Node and Express to build a robust API, ensuring secure data fetching.
- Implemented an asynchronous function, leveraging Axios to integrate with the Spotify API for fetching users' top artists' data.
- Enacted rate limiting for Spotify API to ensure optimal performance and prevent disruptions during peak usage periods.

Algorithm Viewer Front End | *JavaScript (React, D3, Jest)*

- Improved computer science students' comprehension and retention of important concepts by developing an interactive, step-by-step data structures and algorithms visual simulation application with D3 and React
- Optimized the algorithm visualizer's usability by implementing interactive functionalities, resulting in an intuitive and user-friendly experience.
- Achieved a significant 50% improvement in runtime performance for visual loading pages by migrating the legacy code base from Unity to D3, resulting in enhanced efficiency and faster loading time.
- Ensured consistent server stability during deployment by implementing robust unit tests using Jest.

SunBay Hospitality Platform Back End | *JavaScript (NodeJS, Express, React), NoSQL*

- Developed a web and mobile application using MERN (MongoDB, Express, React, NodeJS) stack, enabling convenient access to the guest check-in/out, and ordering services.
- Implemented CRUD with RESTful API endpoints, utilizing NodeJS, Express, and SQL for seamless data retrieval and manipulation.
- Designed and documented RESTful API with Swagger.
- Created an Android mobile user interface for guest ordering utilizing React Native and Expo.
- Devised MySQL database using MongoDB and ER(Entity Relationship Diagram) database modeling.

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.