

# Johnny Ngo

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## TECHNICAL SKILLS

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**Languages:** C, Python, Java, PHP, JavaScript, HTML/CSS, SQL (MySQL, NoSQL)

**Frameworks and Libraries:** React, NodeJS, Express, Jest, JUnit

**Developer Tools:** Git, Github, Jira, Figma, Postman, MongoDB, AWS

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

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

## PROJECTS

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**Pokify Full Stack** | *JavaScript(React, NodeJS, Express)* September 2023 – January 2024

- Developed Pokify, a web application that connects and displays users' top 6 Spotify artists to their corresponding Pokemon types.
- Utilized Node and Express to build robust API that retrieves users' tokens and stores them securely in cookies ensuring secure authentication for 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)* May 2022 – December 2022

- 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 friendly user 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* May 2021 – July 2021

- 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.

## EDUCATION

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**University of Central Florida**  
*Bachelor of Science in Computer Science*

Orlando, FL  
GPA: 3.40/4.0

## EXPERIENCE

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**Instructional Tutor** January 2022 – December 2023  
*Orange County Public School* Orlando, FL

- Improved the school's algebra test scores, resulting in the school being ranked number one in Orange County.
- Facilitate the development of student's fundamental understanding of core mathematical concepts.

## AWARDS

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**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.