

JASON LIN

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EDUCATION

University of Central Florida

BS Computer Science *GPA: 3.84/4.0*

Orlando, FL

Aug 2020 - May 2024

Relevant Coursework: Data Structures and Algorithms, Processes for Object Oriented Software

Development, Introduction to Bioinformatics Algorithms, Theory of Computation

EXPERIENCE

Amazon Web Services

Software Development Engineer Intern

Seattle, WA

May 2023 - Aug 2023

- Conceptualized an internal system in AWS Game Tech across 3 teams planned to collect specific metrics, contributing to the enhancement of the customer experience with the product
- Crafted the internal system utilizing a technology stack that included S3, Lambda, Amazon SQS Queues, and Java Spring
- Ensured the system's reliability and performance by rigorously unit testing with Mockito, achieving an impressive 92% line coverage, and monitoring system metrics through AWS CloudWatch
- Pioneered the system's creation from the ground up, including the provisioning of AWS services using the Cloud Development Kit

KnightHacks

Backend Developer

Orlando, FL

May 2022 - Feb 2023

- Collaborated on the development of 12 API endpoints for the KnightHacks Hackathon website, leveraging GraphQL and Go to enhance functionality
- Conducted comprehensive unit testing on endpoints that interacted with the database, achieving 90% line coverage ensuring the effectiveness and reliability of the backend
- Implemented a seamless data flow between live and working data, efficiently storing it in a PostgreSQL server
- Elevated the performance of the Hackathon website, serving a user base exceeding 1000 individuals, by implementing robust error handling mechanisms to provide users with valuable feedback

PROJECTS

Parallelized Merge Sort Paper *Java*

<https://www.overleaf.com/read/scqvnqcsphknz>

- Directed a team of 3 students in the creation of a parallelized merge sort to evaluate its influence on sorting within a greedy application
- Tested the merge sort on 3 different greedy algorithms and benchmarked based on memory usage and the time it took for each greedy algorithm to run
- Evaluated and created graphs from the metrics produced from randomized test cases

Recipefy *MongoDB, Node, React, ExpressJS, Sendgrid*

<https://github.com/N00dles123/Recipefy>

- Orchestrated a team of 8 developers using Jira to create an application to share and create recipes
- Initiated and designed the system using Cloudinary, Express, and MongoDB
- Simplified the features by unit testing with JEST with 90% coverage
- Contributed to 14 API endpoints which involved User and Recipe APIs resulting in 50% more efficiency when testing

ContactHub *Linux, Apache, MySQL, PHP* <https://github.com/N00dles123/COP4331-Small-project-group8>

- Supervised a team of 8 individuals as the project manager, employing Gantt charts to coordinate the development of a full-stack web application for storing and managing contact information.
- Launched the system from scratch using Linux, Apache, PHP, and MySQL and hosted on DigitalOcean
- Extended a total of 8 PHP API endpoints and conducted thorough testing using Postman to verify correct execution and intended functionality

SKILLS

Languages:	Java, JavaScript/TypeScript, Python, C, PHP, HTML, CSS, SQL, Go
Frameworks:	React, Node, Spring, Express, Spark, Bootstrap, Socket.IO, Mongoose, Mockito
Developer Tools:	Git, Visual Studio Code, AWS CDK, Jira, Apache, Postman, SSH, GitHub