

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, Operating Systems

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 SpringBoot
- 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
- Spearheaded the development of the system from the ground up, including the provisioning of 4 different AWS services using the Cloud Development Kit

KnightHacks

Backend Developer

Orlando, FL

May 2022 - Feb 2023

- Collaborated in a cross-functional team to design, implement, and test 12 RESTful API endpoints for the KnightHacks Hackathon website, focusing on enhancing user interaction and data management
- Conducted comprehensive unit testing on endpoints that interacted with the database, achieving 90% line coverage ensuring the effectiveness and reliability of the backend
- Elevated the performance of the Hackathon website, serving a user base exceeding 1000 individuals, by implementing robust error handling to provide users with valuable feedback

PROJECTS

Bearmax TypeScript, Azure, DigitalOcean, OpenCV

<https://github.com/Bearmax-UCF/BEARMAX-V2>

- Orchestrated a team of 4 individuals as the project manager creating software to support a robot made for children with Autism Spectrum Disorder
- Streamlined development time by 50% by implementing a pipeline using Github Actions to automate deployment and unit testing
- Facilitated the use of object detection models such as YOLOv8 to enhance the detection objects around the camera of the robotic unit

Parallelized Merge Sort Paper Java

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

- Directed a team of three students in developing a parallelized merge sort algorithm to assess its impact on sorting efficiency within the context of greedy algorithms
- 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
- Assessed and generated graphical representations using data obtained from 50 diverse test scenarios

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 achieving 90% coverage
- Contributed to 14 API endpoints which involved User and Recipe APIs resulting in 50% more efficiency when testing

SKILLS

Languages:	Java, JavaScript/TypeScript, C#, Python, C, PHP, HTML, CSS, SQL, Haskell, Go
Frameworks:	React, Node, SpringBoot, Express, Spark, Bootstrap, Socket.IO, Mockito, AWS CDK, Azure
Developer Tools:	Git, Visual Studio Code, Jira, Terraform, Apache, Postman, GitHub, Docker, MongoDB, MailGun