

Aryan Jha

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EDUCATION

University of Central Florida

Bachelor of Science in Computer Science | GPA: 3.75

Orlando, FL

Graduation May 2023

TECHNICAL SKILLS

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

Frameworks: React (Native), Angular, Node.js, Express, ASP.NET Core, Django

Developer Tools: Git, VS, Heroku, Postman, MongoDB, Firebase, Expo

EXPERIENCE

Software Engineer

City Aegis

September 2021 – Present

Orlando, FL | Remote

- Led the development a mobile application for the MIT Solve Incubator program to improve individual and community safety through features such as safe routing, real time incident reporting, and safety risk predictions leveraging React for the client side, Node.js for the server side, SQL for the database, and Oracle Cloud Infrastructure for hosting
- Achieved a secure authentication flow using the OAuth2.0 protocol through the Passport.js library to create protected API routes which require properly signed JWT tokens in request headers

Software Engineer Intern

Quicken Loans

June 2021 – August 2021

Detroit, MI

- Engineered a consolidated loan search page and micro-app for all 13 Rocket Logic core services via an Angular UI and ASP.NET Core API built directly into the existing shell to greatly improve overall user friendliness and client and developer efficiency by removing the need for separate search pages in each service and providing universal loan information on the home page
- Integrated existing loan information API services (source of truth) as a client in loan search API to be securely accessed through the UI with authentication and properly coded C# object mapping to return exclusively pertinent authorized information with end-to-end testing and 80%+ code coverage
- Directed the creation of a CircleCI deployment pipeline for the loan search API using terraforming to automate the process instantiating an AWS EC2 instance
- Created features for Property Qualifier team (order addendum reasoning, subject property forms, solar panel forms, condo information) by modifying the writeback lambda function and models in the ASP.NET Core backend and updating the UI and its corresponding micro-backend functionality for production use by 100+ clients

Undergraduate Research Assistant

University of Central Florida UAS Lab

December 2020 – May 2021

Orlando, FL

- Implemented digital resource allocation and decision making algorithms in Python to decide what assets certain Unmanned Vehicles (UVs) should receive reliant upon on their current environment to maximize overall mission success
- Parsed inbound data from AFSIM software using the pandas library in determining the optimal sensor algorithmically based on multiple parameters such as velocity, distance, and sensor fidelity

PROJECTS

Parky | *Node.js, React Native, MongoDB, Firebase, Figma, Git*

March 2021 – May 2021

- Invented a crowd-sourced parking garage app with both mobile and web clients to help students find empty spots to deal with campus parking issues
- Added feature on mobile client to find closest parking spot through integration of 3rd party services to obtain user location and calculate minimum travel time to garages
- Produced API routes for claiming and leaving parking spots using Node.js to communicate with backend database and route validation through Postman