# Aryan Jha

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## EDUCATION

**University of Central Florida**  Orlando, FL
*Bachelor of Science in Computer Science*  *Graduation May 2023*

## TECHNICAL SKILLS

**Languages**: Java, C, JavaScript, Python, C#, SQL, HTML/CSS
**Frameworks**: React (Native), Angular, Node.js, Express, ASP.NET Core, Django
**Developer Tools**: AWS, Boto3, Git, VS, Heroku, Postman, MongoDB, Firebase, Expo, Unity

## EXPERIENCE

**Software Development Engineer Intern**  May 2022 – August 2022
*Amazon*  *Seattle, WA*

- Invented a new onboarding workflow for AWS Managed Services customer accounts to the patch reporting service, eliminating over 500+/yr support tickets created for onboarding and reducing customer wait time from 2 weeks to 6 minutes by leveraging various AWS services (Step Functions, Lambdas, Cloudformation, Glue, Athena, CloudWatch, S3, DynamoDB) to create a holistic solution with built-in retry functionality
- Developed a new credential provider by integrating internal AWS services through session policies and an IAM trust role in order to access customer credentials to deploy the necessary infrastructure for the patch reporting service into their account
- Designed the architecture of the new automated patch reporting onboarding system to minimize costs to company by integrating DynamoDB's API into the Step Function state machine removing redundant AWS Lambda operators and handle extensive traffic load by batching in the pipeline
- Produced automated script outside of project expectations to empty and delete S3 Buckets from customer accounts that are to be offboarded through a IAM policy to gain deletion access within the account to ease on-call pain and reduce time spent on manual deletion from 1 hour to 10 minutes

**Mobile Developer Intern**  September 2021 – November 2021
*City Aegis*  *Orlando, FL | Remote*

- Led the development of a prototype mobile application in the MIT Solve Incubator program to improve community safety through features such as safe routing and real time incident reporting using React, Node.js, and SQL
- Achieved a secure authentication flow using the OAuth2.0 protocol through the Passport.js library to create protected API routes that require properly signed JWT tokens in request headers

**Software Engineer Intern**  June 2021 – August 2021
*Rocket Mortgage*  *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 which greatly improved overall user friendliness and client and developer efficiency by providing universal loan information on the home page
- Integrated existing loan information services 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 thorough 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 the 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**  December 2020 – May 2021
*University of Central Florida UAS Lab*  *Orlando, FL*

- Parsed inbound data from AFSIM software using the [Python] pandas library in determining the optimal sensor algorithmically based on multiple parameters such as velocity, distance, and sensor fidelity from their current environment to maximize overall mission success