Aryan Jha

aryanjha@gmail.com | linkedin.com/in/aryanjha0524

EDUCATION

Georgia Institute of Technology   Atlanta, GA
Master of Science in Computer Science   *Graduation May 2027*

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

EXPERIENCE

Software Development Engineer   July 2023 – Present
Amazon Web Services   *Seattle, WA*
- Drove cost-saving initiatives by restructuring failure handling in Pytest, preventing resource leaks from integration tests. Furthermore, implemented an automated resource cleanup tool reducing test account costs by $5K MoM.
- Released the first major version for the AMS official patch document to support pre/post patch activities on EC2 instances using AWS Systems Manager to 6500+ customers, enabling use-cases like Linux live patching. Furthermore, implemented a serverless solution to outbound failure alerts, managed complex deployments between 3 internal dependencies, scoped and implemented end-to-end integration tests via Fargate, and facilitated product launch/demo meetings with customers
- Scaled Patch Notification workflows by rearchitecting the design to use an SQS and Lambda to buffer incoming requests and prevent dependency throttling, leading to a 43% reduction in execution failures. Added reusable validation logic, eliminating 1000s of invalid support cases that were created, reducing customer cost by 5% and operation engineer time by 10% MoM.
- Upgraded deployment pipelines to full CI/CD, cutting manual approvals, reducing deployment time from 2 to 1 week, and enabling safer and faster feature delivery.

Software Development Engineer Intern   May 2022 – August 2022
Amazon Web Services   *Seattle, WA*
- Architectured an automated onboarding workflow for the Patch Reporting feature, leveraging Step Functions, Lambda, CloudFormation, Glue, and DynamoDB, reducing manual developer onboarding effort by ∼95%, eliminating 500+ annual support tickets, and shortening customer wait time from 1 week to 1 hour
- Produced a time-saving automation script written in Python and the Boto3 API outside of project expectations to empty and delete 150+ S3 Buckets in customer accounts marked for offboarding through a IAM policy to gain efficient deletion access and reduce on-call time by 83% while improving account cleanup processes for future cases.

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 aimed at improving community safety through features such as safe path routing and real time incident reporting using React, Node.js, and SQL

Software Engineer Intern   June 2021 – August 2021
Rocket Mortgage   *Detroit, MI | Remote*
- Engineered a unified loan search page and micro-app for 13 Rocket Logic core services, integrating Angular UI with ASP.NET Core APIs to ensure data consistency, improving client search times by 30%.
- Integrated loan information services into a secure, authenticated loan search API with C# object mapping, returning authorized data and achieving 80%+ code coverage through end-to-end testing.

Undergraduate Research Assistant   December 2020 – May 2021
University of Central Florida UAS Lab   *Orlando, FL*
- 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 from their current environment to maximize overall mission success

TECHNICAL SKILLS

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