

JASH MERCHANT

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EDUCATION

New York University

September '21 - May '23

M.S. in Computer Science, **GPA:** 3.6/4.0

Relevant Courses: Cloud Computing and Big Data, Software Engineering, Principles of Database Systems, Java, Design and Analysis of Algorithms, Operating Systems, Information Security & Privacy, Programming for Data Science

Awards and Honors: NYU Merit Scholarship (\$7000/year)

Gujarat Technological University

August '17 - July '21

B.E. in Computer Engineering, **CGPA:** 9/10, Oracle Certified Java Programmer (scored 98% in SE-6)

Activities and Societies: Member of IEEE SOU Branch, Google's Developer Student Club

SKILLS

C, Java, TypeScript, JavaScript, jQuery, Bootstrap, React.js, Node.js, Django, Flask, SQL, NoSQL, Git, AWS – S3, Lambda, API Gateway, DynamoDB, Elasticsearch, SES, EventBridge, Cloudwatch, Lex, Cloudshell, Rekognition, SageMaker, CloudFormation;

PROFESSIONAL EXPERIENCE

Green Action Studio, New York

January '23 - Present

Software Engineer II

- Managed creation of internal API documentation leveraging Swagger, reducing onboarding meetings by 70%
- Architected serverless solutions utilizing Typescript and AWS CDK, achieving 99.9% uptime
- Orchestrated integration testing to validate seamless interaction of various components and attained 100% unit test coverage
- Designed real-time event streaming pipelines using Amazon MSK, having latency of less than 1 millisecond
- Decoupled modules using dependency injection, reducing overall code complexity by 25%

Pikkal & Co – B2B Podcast Agency, Remote

February '21 - April '21

Full Stack Developer Intern

- Collaborated in an agile manner with cross-functional team sprints, participated in 100% of daily scrums
- Overhauled company's website using React, resulting in 10% increase in web traffic
- Analyzed website performance calling Google's PageSpeed Insights API, facilitating data-driven decisions and a 15% improvement in loading speed

Harvard University, Remote

January '21 - February '21

CS50 Mentor

- Engaged with 100+ attendees via Zoom and EdStem, providing expert assistance and addressing queries during and after Harvard University's online CS50W seminars, resulting in enhanced participant satisfaction and knowledge retention

PROJECTS

HomeFix (Rotational Scrum Master)

Technologies: Python, Django, Bootstrap, JavaScript, Stripe API, Google Maps API, SQLite, GitHub, Travis CI, Flake8, Heroku

- Led a team of 5 to develop frontend with Javascript and Bootstrap, resulting in enhanced user experience
- Devised a robust transaction system with Stripe API, offering users a seamless and reliable payment processing experience
- Engineered location autocomplete feature utilizing Google Maps Places API, improving address validations
- Curated unit tests to ensure more than 85% coverage in Coveralls and implemented CI/CD with Travis CI

Intelligent Photo Album

Technologies: AWS (Lambda, API Gateway, Elastic Search, S3, Rekognition, Lex, CodePipeline, CloudFormation), Python

- Led a team of 2 to build a web app using AWS services Lex, ElasticSearch, and Rekognition, enabling natural language search for people, objects, and more via both voice and text
- Indexed photos when uploaded using Lambda function, fetched image labels from AWS Rekognition with 99% accuracy, and stored relevant metadata in an ElasticSearch index
- Integrated a second Lambda and AWS Lex Bot to efficiently manage search queries, querying the ElasticSearch index, resulting in a 60% reduction in search response time
- Automated and accelerated deployments by 75% utilizing CodePipeline and a CloudFormation template

Personal Website Portfolio Open Source Project

Technologies: HTML, CSS, JavaScript, Bootstrap, Local Storage, Netlify

- Developed a personal website portfolio for anyone to download, end goal of becoming NPM package
- Employed HTML, CSS, JavaScript, Bootstrap, enforced linting with ESLint/Prettier, and Netlify for CI/CD