

Sathvikreddy Dudipala

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Education

Georgia State University <i>Masters in Computer Science(Data Science and Analytics), CGPA: 3.9/4.0</i>	August 2023 - May 2025 Atlanta, GA
Indian Institute of Technology(IIT) Indore <i>Bachelors in Technology, CGPA: 3.8/4.0</i>	August 2018 - May 2022 Indore, India

Work Experience

Full Stack Engineer Graduate Research Assistant <i>Georgia State University Health Informatics Research Group</i>	August 2023 - May 2025 Atlanta, GA
<ul style="list-style-type: none">Orchestrated the integration of the Exact Sciences client portal with the Epic user web system, reducing data entry time for physicians and leading to a 30% reduction in data entry errors.Designed and developed REST APIs with Node.js, facilitating efficient data operations like updates, inserts, and creations, while utilizing PostgreSQL for database management.Enhanced user experience by creating Angular web pages for various lab tests, resulting in a 15% increase in user engagement and a 25% reduction in user errors when ordering tests.	
Software Development Engineer <i>Jio Platforms Limited</i>	June 2022 - July 2023 Hyderabad, India
<ul style="list-style-type: none">Developed and implemented the full-stack for Automator.AI, a No-Code NLP Automation Tool, using React, Node.js, and Express.js, enabling scalable and efficient test execution for UI and API testing.Built a scalable Java core engine for executing free-flowing statements on browsers and mobile devices, and a WebSocket-based solution for real-time updates, reducing server load by 30% through fewer polling requests.Designed and integrated parallel execution pipelines leveraging Kafka and Node.js worker threads, reducing API and UI test execution time by 60% through concurrent test runs.Implemented a standalone inbound Email/SMS server using Haraka SMTP, reducing external dependencies by 90%, streamlining communication processes and improving reliability by managing all email and SMS interactions.Built an advanced test reporting dashboard using Grafana, and D3.js, integrating test logs, execution metadata, and real-time performance data to generate detailed execution logs, DOM snapshots, network traces, and error heatmaps, accelerating defect triage by 35%.	
Software Development Engineer Intern <i>Jio Platforms Limited</i>	January 2022 – May 2022 Hyderabad, India
<ul style="list-style-type: none">Developed a customized coupon generation system from scratch using Spring Boot, with a responsive React UI, capable of generating up to 10M coupons per request.Spearheaded optimization of storage and retrieval for 50M+ coupon records in MongoDB by implementing compound indexing strategies, boosting query performance by 50% and reducing latency under heavy data loads.Deployed coupon generation backend as Dockerized microservices on AWS Fargate, enabling scalable processing of 1M+ coupon records regularly with 99.9% uptime and efficient load handling.	

Projects

CollabX <i>MongoDB, Node.js, Express, Socket.io, WebRTC</i>	Github
<ul style="list-style-type: none">Built CollabX, a video conferencing platform with a responsive dashboard created with HTML and CSS. Implemented RESTful APIs to manage user profiles, meeting history, and scheduled meetings.Built real-time features such as WebSocket-based chat and a collaborative HTML5 Canvas whiteboard with WebRTC, secured user data with JWT and leveraged Google Analytics to enhance user engagement.	

Technical Skills

Programming Languages: Java, JavaScript, TypeScript, Python, C++, Shell, SQL
Web Technologies: HTML, CSS, NodeJS, ReactJS, Angular, Spring Boot
Developer Tools: Git/GitHub, Jira, Docker, Redis, Kafka, Terraform, Grafana, Kubernetes, Swagger, Postman, Confluent, Bitbucket, JUnit, Mockito
Databases & IDE: PostgreSQL, MongoDB, SQL Server, Document DB, Visual Studio Code, Eclipse, IntelliJ
Cloud Services: AWS EC2, S3, AWS Lambda, AWS RDS, DynamoDB, AKS, AWS Fargate