

# SRI VASTAVA RANGARAJU

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## SUMMARY

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Ambitious Full Stack Software Engineer with expertise in developing web applications for enterprises in both Java, Python, PostgreSQL, MYSQL and React Js based technology stack on AWS. Worked collaboratively as a part of the team, possessing strong problem-solving and analytical skills that contribute to efficient teamwork for effective software solutions.

## EDUCATION

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University of Alabama at Birmingham	Birmingham, AL
Masters in computer science	December 2022

Jawaharlal Nehru Technological University	Hyderabad, India
Bachelor of technology	November 2020

## WORK EXPERIENCE

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### *Softura*

Software Engineer	Dec 2022 – Present
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### **Bug Bash**

#### *Client - Cummins*

May 2023 – Dec 2023

- Worked as a team member in Bug Bash team resolving production bugs in multiple products built using Java Spring MVC, Python, AWS, and MySQL.
- Collaborated on understanding project architecture, identifying architecture-related issues, and implementing necessary fixes.
- Conducted thorough analysis and debugging to identify and rectify the root causes of production issues, contributing to the overall stability and performance enhancement of the system. (Cause and effect diagram, program flow diagrams)
- Participated in daily scrum meetings to update on project progress.
- Managed the Jira board for creating and updating the issues/Bugs.
- Reviewed the bug resolutions with Product owners, Software engineering leaders, and cross functional product team to bring the issues to a closure.

### **Developer portal**

#### *Client - Cummins*

Dec 2022 – April 2023

- Contributed to development of web developer portal using React.js by creating components, JavaScript functions, routing, state, props, and AWS SAM during deployment.
- Contributed as a full-stack Java developer, engaging in both front-end and back-end aspects of the development process.
- Developed Spring Boot microservices with APIs, incorporating Controller, Entity, Repository, and Services models, and DynamoDB Mapper for CRUD operations. Created Docker image, deployed on AWS ECS with API gateway for security.
- Built a serverless AWS Lambda function in Python, enabling CRUD operations on DynamoDB. Utilized AWS SES for email sending and pypika library for SQL queries.
- Utilized query statements, including joins and subqueries, to fetch data from a PostgreSQL database.

## ***Softura***

Software Engineer Intern

***Farmington Hills, Michigan***

June 2022 – Dec 2022

- Automatic generation of data objects with enriched properties based on messaging definitions in YAML. Used java swagger code generation library that allows the usage of custom annotations and generated data objects using custom annotations.
- Provided final YAML file with instructions on how to include custom annotations. Used Java, swagger API development tool, spring java framework and build tools such as Maven and Gradle. Created automation testing suite using cucumber framework for validating REST API results, generated test cases for multiple data types including, word, float, regular expressions. Used Behavior-driven approach using Gradle build tool to create and run the test cases.
- Generating code with custom annotations in AsyncAPI based on Asyncapi specification in addition to modifying template repositories.
- Used Karate, a test-automation framework to run API testing and run karate feature file on AWS lambda.
- Worked with the tool Localstack to simulate API dependencies, mock AWS resources such as S3, IoT, Lambda. Connected to IoT mqtt endpoint and sends/receive a couple of messages.

## **TECHNICAL KNOWLEDGE**

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Java, Python, Problem solving, Bug Analysis, Springboot framework, Flask, GIT, AWS Services, Application Development, Databases: Mysql, Postgres., RESTful Web services, JIRA, API design and development, Cucumber Framework, Karate, Swagger API, Docker, Flask python framework.

## **PROJECTS**

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### **Electronic Health Record (EHR)**

- EHRs are Realtime, patient-centered records that make information available instantly and securely to authorized users. Blockchain will reinvent the way patient's EHR are stored by providing safer mechanisms for health information exchange of medical data in the healthcare industry, by securing it over a decentralized peer-to-peer network. Created blockchain network using Hyperledger fabric and composer.

### **Social Network**

- Developed an Exciting Social Network project, allows users to post, comment, like, follow, unfollow. Utilized Node Js API, JWT Auth, MongoDB, and React Js, custom reCAPTCHA, MVC Design pattern, Admin dashboard, used NPM Modules, Synchronous and Asynchronous programming, core node js modules, pagination, authorization and permissions, CRUD on user posts.

### **File Sharing Tool**

- The User logs into the website, uploads and sends a local file to provided email addresses. Used AWS EC2 instance to host the webserver, AWS S3 to store the file, AWS Lambda and AWS SES to send the emails, AWS DynamoDB to store file info.

### **Online Book Store**

- An online Book Store created with Python / Flask rest, MySQL, Angular and Bootstrap Features use of several data structures for optimization techniques A full-fledged functionality with Modules like cart, Wishlist, payment, order processing Real time data integration from Database Responsive layout for extra small, Large Medium devices and browsers.

## CERTIFICATIONS

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### **AWS Certified Developer – Associate (DVA-C02)**

**Achieved:** January 2024

**Key Skills:** AWS Core Services, Deployment, Security, Development with AWS SDK, etc.

### **HashiCorp Certified - Terraform Associate (003)**

**Achieved:** May 2025

**Key Skills:** Building Terraform configuration files and scripts, Core terraform concepts, Modules and workspaces, Terraform Cloud, Principles of Infrastructure as Code.