

# Sai kumar Padamati

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## EDUCATION

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### University of Florida

*Master of Science in Computer Science; GPA: 3.77/4.0*

Gainesville, Florida

*Aug 2022 – May 2024*

### JNTU College of Engineering Hyderabad

*Bachelor of Technology in Computer Science and Engineering; GPA: 3.9/4.0*

Telangana, India

*Aug 2015 – May 2019*

## SKILLS

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**Programming:** Java, JavaScript, Python, TypeScript, C++, C, Node.js, Golang/Go, Erlang.

**Web Technologies:** RESTful APIs, HTML, CSS, ReactJS, ExpressJS, Spring Boot, Spring Security, Spring Kafka, Microservices, RabbitMQ, Zookeeper.

**Cloud technologies:** AWS Lambda, DynamoDB, S3 Bucket, AWS Athena, Azure, Google Cloud Platform (GCP).

**Developer tools:** Git, Linux, Bash, VS Code, IntelliJ, Postman, Jira, Maven, Groovy, Docker, Confluence, Cassandra.

**Databases:** SQL, PostgreSQL, MongoDB, Elasticsearch, Redis.

## WORK EXPERIENCE

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### Brillio Technologies

*Senior Software Engineer*

Hyderabad, India

*Mar 2022 – Aug 2022*

- Restructured various modules within a legacy application during the ESAP migration project for Verizon, resulting in a 25% enhancement in the performance of the new application.
- Conducted **HLD** and **LLD** reviews, designed the tools architecture, and performed trade-off analysis to ensure optimal design choices were made, resulting in an 80% reduction in pipeline analysis time.
- Implemented a robust deployment pipeline leveraging Docker, Kubernetes, and Jenkins, resulting in a significant increase in application reliability and scalability across diverse environments. This approach led to a 30% reduction in deployment failures and a 50% improvement in deployment speed.

### Wipro Technologies

*Project Engineer*

Hyderabad, India

*Jun 2019 – Feb 2022*

- Collaborated on the backend development of B2B applications for HPE and Fruit of the Loom clients.
- Supervised the end-to-end process of engineering and integrating new functionalities into the application, notably a quoting system. This initiative eliminated dependencies on external applications and slashed user time by 25%.

## PERSONAL PROJECTS

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### Stock Portfolio Analyzer

- Designed and executed a visual stock portfolio analyzer from scratch using Java8, **REST API**, Gradle. Created the core logic using **DesignPatterns**, refactored the code to add support for multiple stock services. Improved the application stability and performance by 15% by using **multi-threading**.

### Event-Driven Microservices using Twitter4j API

- Utilized an elevated developer account on Twitter to integrate the **Twitter4J API**, enabling real-time filtering of tweets. Streamlined **microservices architecture** to ensure that services could be developed, deployed, and scaled independently. Leveraged **Docker** images to create and manage **Kafka** and **Elasticsearch** clusters.
- Customized Elasticsearch as a **Kafka consumer** to store filtered tweets as documents in specific indices. Applied **Kafka streams** to transform tweet data, producing a word count from the stored tweets.
- Engineered **REST APIs** to fetch and validate data from Elasticsearch based on requests made through **Postman**. This enabled efficient data retrieval and provided a seamless interface for interacting with the stored tweet data.

### US Vehicle Crash Data Analysis

- Built a **Vehicle Crash Data Analysis** system utilizing **Java**, **ReactJS**, and **Spring Boot**, that can handle visualization of **250,000** vehicle crash records.
- Architected a cutting-edge web-based interface for seamless user interaction with crash data, enabling in-depth analysis and insights, resulted in a 40% reduction in product development cycle time and a 25% increase in customer satisfaction rates.
- Improved **data query efficiency** and **accuracy** in the tool by **30%** writing optimized complex SQL queries.