

# PAVAN SWAROOP LEBAKULA

Software Development Engineer - Willing to Relocate

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🌐 [Linkedin](#)

📁 [Portfolio](#)

## Experience

### One Community Global

June 2024 – Present

*Software Developer*

- Enhanced project management by developing 5+ features for a Web App using **MERN Stack**.
- Reviewed 45+ pull requests** adhering to best practices in coding standards and utilizing **Sentry** for error tracking and debugging to improve application stability and reduce issue resolution time.

### University of Central Florida

Jan 2023 – May 2024

*Graduate Student Assistant — Software Development*

- Increased task completion from 150 to 225 tasks per semester and reduced missed deadlines from 20 to 5 per semester by **developing a Kanban board built using React** for task management and collaboration among teaching assistants.
- Tech Stack: **React, Firebase, MUI**

### Cognizant / Client: Caterpillar Inc.

June 2019 – July 2022

*Software Engineer*

- Designed and **developed over 70+ requirements** for Caterpillar Minestar Solutions through **cross-functional** collaboration throughout the SDLC.
- Revamped business logic with **Java using advanced data structures and algorithms**, improving processing times by 30%.
- Led a team of 4 developers** to implement the "MayDay Alarm" feature on **Angular & Java-based** monitoring dashboard, enhancing safety and operational response for a **billion-dollar mining business in Australia**.
- Led the implementation of **Apache Kafka** to process over **300+ events per second** from autonomous vehicles, crucial for the "MayDay Alarm" tab on the dashboard.
- Transitioned services in Caterpillar Minestar to a distributed **microservices architecture using Spring Cloud**, reducing server load by 35%.
- Optimized relational databases and exposed **RESTful APIs using Spring Boot** to handle and process data transactions from autonomous vehicles, significantly improving monitoring capabilities in a mining site.
- Orchestrated deployments with Kubernetes and Docker Compose, **Deploying 10+ microservices** in k8 Cluster.

## Academic and Current Projects

### Full Stack: Registration System ([Link](#)) | *Angular 8, Java Spring Boot, SQL, Docker Containerization, API Integration*

- Implemented a full-stack inventory management and registration application with Angular 8 and Java Spring Boot, managing real-time registrations in SQL databases and utilizing Docker for deployment, aiming to provide an efficient solution for registration websites.

### System Design: Registration System | *Microservices, Cloud Services, Scalability, Load Balancing, API Gateway*

- Designed a robust and scalable full-stack registration system using microservices architecture, ensuring efficient and reliable operations for registration websites.

### Cloud-native CI/CD Pipeline ([Link](#)) | *Amazon EC2, Jenkins, Git, Docker, Kubernetes, Argo CD*

- Developed a CI/CD pipeline for a Spring Boot application on AWS EC2, aimed to boost deployment efficiencies of personal projects by 80%.

### AWS: Serverless Event-Driven Web App | *AWS Lambda, SQS, API Gateway*

- Engineered a serverless processing system using AWS Lambda, SQS, API Gateway, and NoSQL database service DynamoDB, enabling scalable and cost-effective web application development without servers.

## Education

### University of Central Florida

Aug 2022 – May 2024

*Master of Science in Computer Science — CGPA: 3.89*

*Orlando, FL*

## Technical Skills

**Languages & Concepts :** Java, Python, Javascript, C#, OOPS, System Design, Data Structures & Algorithms

**Frameworks:** Spring Boot, Spring Cloud, Angular, React JS, Node JS, Express JS, Hibernate, JDBC, Spring Data JPA

**Web Technologies:** RESTful Web Services, WebSocket, Microservices, OAuth 2.0, JWT, JSON

**Testing & Monitoring Tools:** JUnit, Mockito, Cucumber, Jasmine, Postman, Swagger

**Databases:** MySQL, Oracle, MongoDB, PostgreSQL

**Build & Deployment Tools:** Jenkins, Docker, Kubernetes, Helm, Maven, Sonarqube, npm, Tomcat

**AWS:** EC2, Lambda, RDS, SQS, S3, IAM, API Gateway, CloudWatch

## Honors and Certifications

**Honors:** Awarded Best Java Developer at Caterpillar for tremendous efforts in developing MayDay Alarm Tab.

**AWS Certified Developer Associate([Credentials](#)), IIHT Full Stack Developer Certified**