

SAINADHA REDDY PENUGONDA

Cincinnati, OH | +1-513-488-0840 | psainadhareddy2001@gmail.com |
www.linkedin.com/in/sainadhd0507

SUMMARY

Accomplished Software Development Engineer (SDE) with an MS in Information Technology and over three years of end-to-end full-stack and cloud-native application delivery. Expert in Java 17 and Spring Boot microservices, deployed on AWS ECS via fully automated CI/CD pipelines to maximize performance and reliability. Equally adept at front-end and mobile innovation, with hands-on experience in React, React Native and native Android development (Android SDK, XML layouts, Gradle). Proven collaborator in agile, globally distributed teams, driving products from concept through production.

EDUCATION

University of Cincinnati

Aug 2023 - Dec 2024

M.S., Information Technology

- GPA: 3.9/4.0

Jawaharlal Nehru Technological University Kakinada

Jun 2019 - Apr 2022

B.Tech., Electrical & Electronics Engineering

- GPA: 3.7/4.0

EXPERIENCE

University of Cincinnati

Jan 2024 - May 2025

Software Engineer (Part-time • Full-time)

Cincinnati, OH

- Developed 30+ reusable React components, accelerating UI development efficiency by 25%.
- Optimized web performance by reducing page load time by 30% through lazy-loading charts and deferring non-critical CSS.
- Implemented search functionality delivering responses in under 200 ms using PostgreSQL, Redis, and Elasticsearch.
- Deployed microservices to AWS ECS utilizing Terraform and GitHub Actions, ensuring 99.9% uptime in a full SDLC environment.
- Automated end-to-end UI tests with Selenium WebDriver, reducing manual regression testing time by 40%.

Ivor Source

Sep 2024 - Dec 2024

Software Intern

Remote

- Engineered internal tools with Java 17 and Spring Boot using Maven, reducing reporting turnaround by 20%.
- Designed a responsive admin dashboard in Angular 2+, securing 100+ REST APIs using OAuth2/JWT.
- Automated scalable deployments on AWS ECS and Lambda, lowering monthly cloud costs by 35% while supporting continuous integration and production support.

Cognizant Technology Solutions

Oct 2022 - Aug 2023

Programmer Analyst Trainee

Hyderabad, IN

- Maintained 5 Spring Boot microservices; reduced platform downtime 30 % via optimised pooling.
- Created Kafka pipeline for 10 K+ messages/day with exactly-once semantics.
- Improved React First Contentful Paint 40 % through Redux memoization.

PROJECT HIGHLIGHTS

Adaptive-Equipment eCommerce Platform

Mar 2025 - Present

May We Help NPO

- Building a full-stack reservation site enabling individuals with disabilities to browse and reserve 500+ adaptive devices from May We Help's inventory.
- Implements session-based guest & user carts with 30-minute holds and QR/barcode check-out workflows via Make.com & Monday.com integrations.
- Developing an admin dashboard for real-time inventory, order analytics, and equipment life-cycle tracking.
- Automates blue/green deployments to AWS ECS through Bitbucket Pipelines and IaC with Terraform, targeting < 5 min rollback.

TECHNICAL SKILLS

- **Programming Languages:** Java 17+, Python, Kotlin, JavaScript/TypeScript
- **Frameworks & Libraries:** Spring Boot, Spring MVC, React 18, Next.js, Tailwind CSS, React Native, Angular 2+, REST, Maven, Kafka, GraphQL, Hibernate, JPA, Android SDK
- **Databases:** PostgreSQL, Redis, Oracle, MongoDB
- **Servers & Tools:** Tomcat, Android Studio, Gradle, XML, JSON, Docker, Kubernetes, AWS, OpenShift, Terraform,
- **Architecture & Design:** Domain-Driven Design (DDD), Event-Driven Architecture, Microservices
- **Testing:** JUnit 5, Mockito, Selenium WebDriver
- **Methodologies:** Agile/Scrum, JIRA, Confluence, GitHub Actions, Jenkins, Bitbucket Pipelines

CERTIFICATION

- AWS Certified Developer - Associate, Hackerrank top 5 % (Java & SQL)