

# Jayant Babu

FULL STACK ENGINEER · DEVOPS SPECIALIST

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## Summary

Full-stack engineer experienced in AWS cloud architecture, containerized deployments, modern JavaScript frameworks, automation tooling, and AI-driven integrations. Skilled at designing scalable systems, writing maintainable code, and building workflows that improve engineering efficiency. Adept at operating across DevOps, backend development, and user-facing functionality to deliver reliable, well-structured products.

## Work Experience

### Explore Digits Inc.

Bangalore, Karnataka, India

FULL STACK DEVELOPER → SENIOR SOFTWARE DEVELOPER

Dec. 2024 – Present

#### Senior Software Developer (Aug 2025 – Present)

- Improved system reliability and scalability by migrating LimeSurvey to **AWS ECS (Fargate)** using a fully Dockerized architecture.
- Boosted platform performance by up to **35%** by resolving timeouts and optimizing core **PHP backend** execution paths, queries, and caching logic.
- Saved analysts over **10 hours/week** by building an **MCP-based ChatGPT chatbot** connected to internal datasets for automated insights.
- Unified multiple services—LimeSurvey, Chat Service, and Internal Analytics—into a single ECS-managed platform using container-orchestrated, modular architecture.
- Reduced tester environment setup time by **70%** through a **Jenkins one-click CDK deployment pipeline** that automated region/account/version provisioning.
- Raised QA throughput by **40%** by creating **Playwright automation suites** and tools for cross-environment survey migrations.

#### Full Stack Developer (Dec 2024 – Jul 2025)

- Cut deployment failures by **25%** and reduced manual deployment time by **40%** through a robust **AWS CodePipeline + CodeBuild + CDK + CloudFormation** CI/CD setup.
- Delivered secure, resilient multi-client deployments by containerizing and deploying **LimeSurvey (PHP)** on **Elastic Beanstalk + EC2 with Auto Scaling**.
- Enhanced survey flexibility and UX by creating custom **JavaScript-based question types** with dynamic logic, validation, and multi-column structures.
- Reduced authentication-related support tickets by **30%** by replacing legacy login with a centralized **AWS Cognito** authentication workflow.
- Raised survey completion rates by **20%** through UI and responsiveness improvements within LimeSurvey.

### Tinosys

Houston, Texas, United States

SOFTWARE DEVELOPER (CONTRACT – MULTI-PROJECT ENGAGEMENT)

Jan. 2021 – Nov. 2024

#### GeoInvoice – Oil & Gas Operations Platform

- Enabled faster field ticketing and operational efficiency by developing cross-platform features using **Android Studio, Xcode, Java, and Swift**.
- Improved system security and real-time data reliability by designing a scalable backend using **PostgreSQL** and **AWS API Gateway**.
- Increased login reliability for field operators by implementing a clean **Firebase Auth** authentication flow.
- Reduced manual workload via automated notifications, reporting, and event-driven processing using **AWS Lambda**.

#### Cloud Automation & LLM Chatbot Integrations

- Lowered operational overhead by automating marketing and notification workflows using **AWS SES, SNS, and CloudFormation**.
- Improved customer response accuracy with an **LLM-powered FAQ assistant** using **LangChain + RAG** for contextual document lookup.
- Increased support efficiency by integrating chatbot and automation pipelines directly into existing workflows.

#### Fitness Tracking Application (React Native)

- Delivered accurate real-time health tracking by building BLE-powered features using **react-native-ble-plx** with **Firebase** sync.
- Improved metric reliability and user satisfaction by **25%** by implementing optimized, device-specific BLE handlers.
- Enabled users to visualize long-term progress through analytics dashboards that track activity, sleep, and performance trends.

## Skills

<b>DevOps</b>	AWS, Docker, Jenkins, CI/CD, CloudWatch	<b>Front-end</b>	React, React Native, JavaScript, TypeScript,
<b>Back-end</b>	Node.js, PHP, Python, REST APIs, PostgreSQL	<b>Programming</b>	Python, JavaScript, TypeScript, R, Java, PHP, SQL
<b>Tools</b>	Docker, Git, Playwright, LangChain	<b>Languages</b>	English, Hindi, Tamil, Telugu, Kannada

## Education

### Arizona State University

Tempe, Arizona, United States

B.S. IN DATA SCIENCE

Jan. 2022 - Aug. 2024