

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.

FULL STACK DEVELOPER → SENIOR SOFTWARE DEVELOPER

Bangalore, Karnataka, India

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

SOFTWARE DEVELOPER (CONTRACT – MULTI-PROJECT ENGAGEMENT)

Houston, Texas, United States

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

DevOps AWS, Docker, Jenkins, CI/CD, CloudWatch

Back-end Node.js, PHP, Python, REST APIs, PostgreSQL

Tools Docker, Git, Playwright, LangChain

Front-end React, React Native, JavaScript, TypeScript,

Programming Python, JavaScript, TypeScript, R, Java, PHP, SQL

Languages English, Hindi, Tamil, Telugu, Kannada

Education

Arizona State University

B.S. IN DATA SCIENCE

Tempe, Arizona, United States

Jan. 2022 - Aug. 2024