

Adarrsh Paul

Software Developer

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I'm a hands-on, product-focused engineer who thrives on collaboration and mentoring junior engineers. I bring a strong understanding of cloud architecture, particularly with AWS.

Work Experience

Siemens

Bengaluru, Karnataka, India • 09/2023 - Present

Software Developer

- PAMC (Process Automation and Motion Control) - Working with Sensing Technologies like Flow Meter, Vibration + Temperature Sensor and Level Meter
- Developed and maintained a **Cucumber + Playwright BDD test framework**, integrating API responses and UI screenshots to **improve test coverage by 40%** (measured by comparing automated test case count and code coverage percentage) and **reduce testing time by 80%** (calculated by comparing manual vs. automated execution times for regression cycles).
- Implemented **AWS X-Ray instrumentation** for Node.js and Python services, significantly **enhancing distributed tracing capabilities** and **reducing time-to-diagnosis for critical issues by an estimated 50-70%** (based on a comparison of incident resolution times before and after implementation)
- Engineered **scalable UI components using Angular 17**, **improving user experience** and **reducing load times by 28%** (determined via browser developer tool metrics).
- Enabled **zero-touch firmware management** for CC220 and Mag8000 sensors, **automating over-the-air updates** and **reducing manual effort by 16 hours/week** (quantified by estimating saved person-hours previously spent on manual updates).
- Integrated **Mag8000 sensors via MQTT**, processing **1-10 GB of telemetry data daily** (confirmed by monitoring daily data ingestion rates into AWS Timestream or MQTT topic volume), and developing workflows for device registration, claiming, and alarm handling.
- **Enhanced code generation accuracy by Y%** using advanced techniques like **Context7 for real-time, version-specific documentation retrieval** and **#fetch for precise contextual information**, resulting in fewer debugging cycles and higher quality initial drafts (measured by reduction in post-generation error rates or manual correction time).

Skills

Frontend

- Angular 17
- Phaser (Html 5 Game Framework)
- ReactJS

Database

- Amazon DynamoDB
- MongoDB
- PostgreSQL

Programming Languages

- JavaScript
- Python
- TypeScript

Backend

- Amazon CloudWatch
- Amazon S3
- API Design-REST APIs
- Distributed Tracing-AWS XRay-code instrumentation
- Kafka
- Node.js

Education

Bachelor of Technology (B.Tech.) in Computer Science and Engineering

SRM IST Chennai

01/2015 - 12/2019

<https://alumni.srmist.edu.in/profile/140515740119412700>

Torry Harris Integration Solutions

Bengaluru, Karnataka, India • 08/2019 - 09/2023

AISSCE

St. Clare's Senior
Secondary School - India

Software Engineer

- We built *Career Step Ladders* from scratch, where I collaborated with cross-functional teams to deliver custom serverless solutions—like analytics for marketing, admin/operator flows for course management, and approval workflows. I also built a Lambda@Edge function to dynamically inject meta tags for improved OG image rendering.
- One of my main responsibilities was to troubleshoot and resolve issues related to serverless applications and services.
- In addition to this, I also have extensive experience working with payment gateways such as Stripe, Paypal, and Razorpay.

Associate Software Engineer

- Led end-to-end development for *Career Step Ladders*, building and internationalizing the front-end for users across the USA, UK, and India. Developed features for live and batch-based courses, stored content, assignments, quizzes, ratings, and feedback. Integrated Zoom SDK to support live sessions and ensured seamless backend integration to support both free and paid offerings.

Associate Software Engineer Trainee

- Developed a gamified career ladder using Phaser 3 to visually track and showcase user progress, enhancing user engagement and motivation