Shubham Rawat

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SUMMARY

- Over 3+ years of experience developing applications using ruby, python, javascript.
- Extensive experience with different AWS cloud services (Lambda, DynamoDB, S3, EC2, etc.) and Docker for containerization.
- Enhanced and maintained a RASA framework based chatbot, and worked on multiple generative AI projects using AWS Bedrock, OpenAI and LangChain.
- Strong understanding of Object-Oriented Programming and SOLID principles.
- Skilled in Test-Driven Development, ensuring comprehensive test coverage and defect-free code.
- Experienced in utilizing the Agile Scrum framework, adhering to its best practices for optimal project delivery.

EXPERIENCE

- **PlanSource India Operations Pvt. Ltd.** — Bengaluru, India
  Associate Software Engineer (Full-time) — *August. 2023 - Present*
  - Designed and implemented end-to-end architecture for various projects, collaborating with cross-functional teams to develop and deploy web applications. Handled both back-end and front-end tasks, developed new APIs, ensured 100% test coverage, and managed front-end development using JavaScript and CSS.
  - Enhanced a RASA-based chatbot with features for password resets, username retrieval, and user queries, allowing users to easily obtain information without navigating the UI.
  - Integrated an LLM-based GenAI model into business dashboards, creating a chatbot that allows users to obtain insights by querying the dashboard data directly.
  - Collaborated with the AWS team in a workshop to develop a smart agent designed to assist users in selecting their benefits. The agent utilized user demographics and survey responses to make informed decisions, enhancing the user experience by providing personalized and accurate benefit recommendations.
  - Developed an admin chatbot capable of answering platform-specific questions and automating system tasks/jobs. My contribution was in creating the AI agent and supporting back-end APIs.
  - Implemented and integrated Superset, an open-source BI and visualization tool, into the product, resulting in savings of over $200k.
  - Automated ETL pipelines and ecosystem integrations on the Tray.io platform, managing crucial data for high-revenue clients.
  - Brainstormed and developed GenAI initiatives as part of a research team, including a summary generation tool and a data extraction system. These features were integrated into the product, making it a differentiator from our rivals and simplifying user tasks.

- **MountBlue Technologies Pvt. Ltd.** — Bengaluru, India
  Software Development Engineer (Contract - PlanSource) — *August. 2022 - July. 2023*
  - Established a comprehensive testing framework which ensured accurate data transfer via crucial APIs.
  - Developed an event-driven system using AWS SQS and Lambdas for processing and transmitting bulk data to business partners.
  - Implemented CI/CD pipelines to ensure only defect-free code is deployed to servers through automated testing and code deployment.
  - Contributed to monolithic and microservices architecture in Ruby and JavaScript, while ensuring error-free code in tightly coupled systems.

EDUCATION

- **College of Engineering Roorkee** — Roorkee, India
  Bachelor of Technology in Computer Science and Engineering; Percentage: 67.30 — *July. 2014 – June. 2018*

- **Doon International School** — Dehradun, India
  XII CBSE; Percentage: 84.60 — *April. 2012 – May. 2013*

PROGRAMMING SKILLS

- **Languages**: Ruby, Python, Javascript, Java, SQL
- **Technologies**: AWS Cloud products (API Gateway, Lambda, S3, EC2, SQS, OpenSearch), Databases (mySQL, Postgres, Snowflake, Redis, AWS DynamoDB), Docker, AWS Bedrock, OpenAI API, LangChain, RASA, Web frameworks (Rails, FastAPI, ReactJS, Spring), tray.io, pendo.io

Projects

- **Instagram Clone**: Created an Instagram clone web-app with features to follow users, view posts, like, and comment. Hosted on AWS EC2 with user uploads stored on AWS S3. Enabled user sign-up and authorization for social media use.
- **Flight Booking web-app**: Built a flight booking app where admins create flight schedules and users book flights. Utilized PostgreSQL for data storage.
- **Fundraiser website front-end**: Designed a fundraiser website to practice front-end skills, showcasing global campaigns and seeking donations for helping the needy.