Rajat Shetty

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Professional Summary

Backend developer with hands-on experience in designing and implementing scalable backend services, IoT integrations, and automation systems. Skilled in Golang, Python, and cloud technologies, with expertise in real-time device communication, HRMS integrations, and continuous deployment environments. Adept at collaborating with cross-functional teams and external vendors to deliver robust, production-ready solutions.

Technical Skills:

Programming Languages:	Golang, Python, C, SQL
Frameworks & Tools:	Gin, Flask, AWS Chalice, SDL2, Unity
Databases:	PostgreSQL, MySql
Cloud & DevOps:	AWS, Kubernetes, Jenkins, Grafana, Postman, Ngrok, GitHub
Concepts:	Rest API Developed, IoT Communication (MQTT), Microservices, CI/CD, Agile Methodologies
Other:	Linux, Git version control, Agile development

Professional Experience:

Backend Developer Intern – **Spintly India Private Ltd.**
(12/2024 – 07/2025)

- *Developed a core communication interface in Golang to connect face recognition devices with a cloud-based IoT platform. The system uses MQTT for primary real-time data synchronization and control, while HTTP is used specifically for device configuration and health checks, resulting in faster deployments and reliable device management across multiple firmware versions.*

- *Designed and implemented integration services for multiple HRMS systems (Keka, Sensys, Ascent), automating employee attendance data flow and user management with Spintly's Smart Access and Authentication Management System (SAAMS).*

- Developed backend services using Python (AWS Chalice) to support automation dashboards and continuous integration automation workflows.

- Added an automation suite for all services I developed, enabling continuous integration and ensuring reliable, repeatable deployments across environments.

- Collaborated cross-functionally with integration, frontend, firmware, and external vendor teams to ensure seamless API communication and system compatibility across the platform.

Key Achievements:

- **Streamlined HRMS integration**, cutting manual data processing workload and adding configurable sync modes (per-second throttles, hourly sync, daily sync) for flexible automation.

- **Delivered fault-tolerant, real-time device control and monitoring** for face recognition devices via the Spintly gateway, improving reliability across multiple firmware versions.

Projects:

Chess Game with UI in C *(chess engine: In Progress)*

- Developed a chess game with SDL2 for UI. Developing chess engine logic focused on data structures and algorithms learning.

PodPilot AI *(Ongoing product)*

- Backend service for an AI-powered podcast production assistant using Gin, designed to automate audio editing, transcription, and publishing workflows.

Portfolio Website *(Deployed)*

- Developed a personal portfolio website using **Next.js** and **TypeScript**, hosted on **Vercel**.

- Implemented **dark mode toggle** and ensured **responsive design** for seamless user experience across devices.

- Utilized **MDX** for dynamic content, enabling easy updates and blog-style posts.

Coursework & Certifications

Electronic Arts Software Engineering Virtual Experience Program – *Forage* (Jan 2025)

- Feature proposal writing, class diagramming, bug fixing, and data structure optimization in C++ for EA Sports College Football.

AWS APAC Solutions Architecture Virtual Experience Program – *Forage* (Aug 2025)

- Designed scalable AWS Elastic Beanstalk hosting architecture and cost modeling for client growth challenges.

Soft Skills

- **Collaboration:** Working effectively with cross-functional teams to contribute to a shared vision and achieve project goals.

- **Adaptability:** Ability to give results in a fast-paced, fluid startup environment.

- **Continuous Improvement:** A commitment to iterative development and a mindset of always seeking ways to make things better.

- **Technical Curiosity:** A genuine passion for understanding software architecture, system design, and the deeper mechanics of computer systems.

Education

Bachelor's in Mechanical Engineering
Shree Rayeshwar Institute of Engineering and Information Technology | 2024