

# Sandip Parida

Full-Stack / Backend Engineer | Ruby on Rails | AI Agents | DevOps | Payments

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## PROFESSIONAL SUMMARY

Full-Stack / Backend Engineer with 4.5+ years of experience building production web platforms using Ruby on Rails, React, Python, TypeScript, PostgreSQL, and AWS. Strong experience in SaaS platforms, e-commerce, payments, authentication, AI/LLM integrations, MCP-based workflows, agentic applications, DevOps ownership, and IoT/embedded prototypes. Known for taking products from idea to production, owning backend architecture, integrations, deployment, and automation-heavy internal systems.

## CORE SKILLS

**Backend Engineering:** Ruby on Rails, Django, REST APIs, PostgreSQL, MongoDB, authentication, scalable product architecture

**AI / Agentic Systems:** LLM integrations, MCP workflows, AI agents, RubyLLM, LangChain.rb, OpenAI and Perplexity APIs

**Payments & Integrations:** Stripe, recurring billing, donation flows, receipts, third-party SaaS/API integrations

**DevOps & Delivery:** AWS, Docker, CI/CD, production deployments, environment management, release ownership

**IoT / Embedded:** ESP32, ESP32-S3, BLE, OLED displays, sensors, servo motors, hardware-triggered automation

## EXPERIENCE

### BetaCraft Technologies, Pune

#### Software Developer / Full-Stack Engineer

Feb 2024 - Present

#### Protowords / AI Platform

- Built and maintained a no-code AI platform for creating TaskBots and ChatBots across multiple LLM providers.
- Implemented secure user workflows including MFA, JWT authentication, dynamic welcome banners, role-aware access, and platform-level user management.
- Designed an LLM relay proxy to route requests, track usage and cost, and support event-driven LLM functions, activity logs, notifications, email workflows, redirects, and short-link mechanisms.
- Built a dynamic cost engine for tracking AI usage, managing pricing, and auto-generating receipts.
- Integrated agentic workflows and MCP-based capabilities to support automation-heavy product experiences.

#### Bectzn

- Owned major delivery of Bectzn, a Rails-based social platform for election-focused communities.
- Implemented location-based candidate discovery using Google Autocomplete, browser/device location, Ballotpedia API, and Perplexity API for generating up-to-date candidate profiles.
- Developed interactive product features including upvotes, candidate comparison, and Stripe-powered donation flows.
- Worked across backend, frontend, deployment, and third-party integrations to move the product from concept to production quickly.

#### Craft OS

- Led full-stack development of Craft OS, the company's internal HR management platform.
- Built role-based authentication, employee workflows, notifications, applicant/career modules, and third-party integrations.
- Developed an Electron-based task tracking app to support internal work visibility and reduce dependency on external SaaS tools.
- Built an internal company agent bound to specific projects, slugs, and lenses, with tool skills for retrieving project context and automating operational updates.
- Integrated the agent with MCP, Jira, GitHub, and the company's timestamp/work-tracking systems to generate daily group updates on project progress, blockers, dependencies, and user work.
- Handled main DevOps responsibilities including deployment, CI/CD, environment management, and production support.

#### Lumi Passport

- Led frontend development for an interactive educational platform using React.
- Built backend APIs and admin dashboards with Rails, integrating Insendi, Chart.js, PDF rendering, dynamic modals, and digital credential workflows.

### NetTantra Technologies / Hyscaler, Bhubaneswar

#### Software Developer

Nov 2021 - Jun 2023

- Migrated healthcare e-commerce websites from WordPress/WooCommerce to Spree Commerce, supporting platforms serving 5,000+ users.
- Integrated third-party services including Shippo, Zoho CRM, Doctegrity, and payment gateway workflows.
- Built APIs, automated order processing flows, and recurring payment workflows to reduce manual operations.
- Implemented email notifications with Rails ActiveMailer to improve customer and operational communication.
- Developed healthcare applications for prescription management and medicine supply workflows.
- Built an internal attendance system to automate employee tracking, reporting, and notifications.

## **Freelance / Open Source**

### **Full-Stack Developer**

6 months

- Delivered three freelance projects across web application development, automation, and client-focused product workflows.
- Contributed to open-source and AI-related projects while expanding practical experience with OpenAI and agent-based development.

## **PERSONAL PROJECTS**

### **FrameStory**

- Built an Android-first, local-first creator utility for organizing video projects, importing phone media, extracting frames locally, selecting frames, and exporting/saving results.
- Designed for lightweight mobile performance using Expo, React Native, TypeScript, and local persistence.

### **Product Layer**

- Built a product-focused application exploring structured product workflows, planning, and execution.
- Applied full-stack development patterns across product data, user workflows, and application UX.

### **Agent Playbook**

- Created an AI/agent-focused project for experimenting with agent workflows, reusable playbooks, automation patterns, and LLM-based execution flows.

### **AI Screens**

- Built an AI-powered creative application focused on screen/story generation and structured creative workflows.

### **AI Carousel Maker**

- Developed an AI-powered application for generating PDF carousels for productivity and team knowledge sharing.

## **IOT / EMBEDDED PROJECTS**

### **Remote BLE Audio Trigger for Wispr Flow**

- Built an ESP32-based remote trigger that connects over BLE and can fire desktop shortcuts without needing to stay near the keyboard.
- Prototyped onboard-mic audio input from the device to the system, making voice capture and push-to-talk style workflows faster for Wispr Flow.
- Designed the interaction around a few reliable hardware actions such as trigger, shortcut execution, and audio/control handoff.

### **Bot Robo**

- Built a spec-driven interactive desktop companion with animated eyes, mood states, and multi-modal feedback.
- Explored personality-driven device behavior where software state, visual expression, and user interaction work together.

### **MapMe**

- Created an ESP32-S3 and OLED-display navigation companion that can connect with a mobile/campaign app and show lightweight direction cues while the user follows Google Maps.
- Designed the project as a small ambient display for glanceable navigation, reducing the need to keep checking the main phone screen.

### **Obstacle-Avoiding Robot**

- Built a college-time autonomous robot using ultrasonic sensors, servo motors, and motor drivers.
- Implemented obstacle detection logic where the robot moves forward, scans left/right when blocked, and chooses a clear direction automatically.

## **EDUCATION**

### **Bachelor of Computer Applications (BCA)**

Lakshya Institute of Technology, Bhubaneswar

Jun 2018 - Apr 2021