

# AAYUSH RAWAT

Full-Stack Engineer • AI/ML Systems • MCP & Agentic Platforms • SaaS Architect

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## TECHNICAL SKILLS

**Languages & Frameworks:** Python, Node.js, TypeScript, JavaScript, React.js, Next.js, FastAPI, Django, PHP (Laravel)

**AI / ML Stack:** LLM Fine-tuning, Prompt Engineering, RAG Pipelines, AI Agents, MCP (Model Context Protocol), OpenAI API, Anthropic Claude API, STT/TTS/Voice AI, LangChain, Vector DBs

**Infrastructure & DevOps:** Docker, Nginx, AWS, Render, CI/CD, Redis, Celery, Elasticsearch, PostgreSQL, MongoDB, Supabase, SQL/NoSQL

**Integrations & APIs:** REST APIs, Webhooks, WebSockets, CRM Integrations, Razorpay, Shiprocket, WooCommerce, DICOM, Payment Gateways

**Tools & Practices:** Git, Agile/Scrum, System Design, Multi-Tenant Architecture, Schema Management, Microservices

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## EXPERIENCE

**Founding Product Engineer** | **Paramyter** | Noida, UP

06/2024 – Present

- Architected and launched Hygro AI — a standalone, multi-tenant AI service purpose-built for CRM platforms, enabling intelligent lead scoring, automated follow-up workflows, predictive churn detection, and AI-driven deal insights via a unified API layer.
- Implemented MCP (Model Context Protocol) server integrations to connect Hygro AI with external CRM tools, enabling LLM agents to read/write CRM records, trigger automations, and respond to real-time pipeline events with minimal latency.
- Designed and deployed a multi-tenant SaaS platform using Nginx, FastAPI, Docker, and PostgreSQL with dynamic subdomain routing for fully isolated tenant-specific dashboards and data schemas.
- Built agentic AI workflows using LLM orchestration, tool-use patterns, and structured prompt pipelines to automate complex multi-step business processes within the product.
- Developed and maintained scalable full-stack systems integrating Next.js frontends with FastAPI backends, Celery task queues, and Redis caching for high-throughput request handling.
- Architected a robust schema management system for tenant-specific data segregation using PostgreSQL row-level security and dynamic schema provisioning.
- Led DevOps practices: established monitoring dashboards, automated CI/CD pipelines, and performance profiling, ensuring 99.9% uptime for production workloads on Render.
- Collaborated cross-functionally with product and design teams to ship user-centric features rapidly under Agile sprint cycles.

**Implementation Engineer** | **Mercor (YC W23)** | San Francisco, CA (Remote) 03/2024 – 05/2024

- Developed intelligent automation solutions for healthcare institutes leveraging REST API integrations, reducing manual administrative overhead by 40%.
- Built internal tooling to streamline client onboarding pipelines and data synchronization across third-party platforms.

**Developer, AI Training** | **Scale AI** | San Francisco, CA (Remote Contractor) 05/2023 – 02/2024

- Evaluated and benchmarked generative AI LLMs (code, reasoning, instruction-following) to guide RLHF fine-tuning across model iterations.
- Authored high-quality preference data and adversarial test cases to improve model alignment, factuality, and tool-use reliability.
- Collaborated with ML teams to surface systematic model failure patterns and propose mitigation strategies.

**Backend Developer** | **Smartveda** | Dehradun, Uttarakhand

01/2023 – 10/2023

- Designed and implemented server-side logic, business rules, and RESTful APIs powering the core e-commerce platform.
- Integrated third-party services including Shiprocket (logistics), WooCommerce (inventory), and Razorpay (payments) via webhook-driven event pipelines.
- Tech Stack: PHP (Laravel), Node.js, REST APIs, jQuery, Bootstrap, JavaScript.

**Web Developer** | **NK Energy Tech** | Gurgaon, Haryana

05/2020 – 01/2023

- Built and maintained full-stack business web applications using Node.js, React, and MongoDB.
- Integrated payment gateways and REST APIs enabling seamless online transactions; improved site performance by 35% through caching and query optimization.

## NOTABLE PROJECTS

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### Hygro AI — Standalone AI Service for CRM Platforms

*An AI-native microservice that plugs into CRM ecosystems to deliver intelligent sales automation, lead intelligence, and deal optimization.*

- Exposes an MCP-compatible API layer allowing CRM platforms to invoke AI tools (lead scoring, sentiment analysis, auto-drafting) as agentic function calls.
- Supports real-time deal risk scoring, automated next-step recommendations, and natural language querying over CRM data.
- Designed for multi-tenant deployment with per-tenant model context, memory isolation, and usage metering.
- Reduces manual CRM data entry by ~60% through AI-assisted field population and activity logging.

### AI-Powered Voice Receptionist for Businesses

*A production-grade STT + LLM + TTS voice agent that handles inbound business calls end-to-end like a human receptionist — 24/7.*

- Achieves >90% call pickup rate and sub-1-second response latency, virtually eliminating missed-call revenue loss.
- Supports multi-language conversations, handles bookings, FAQs, and escalation routing with contextual memory across a call.
- Delivers call analytics dashboard: call outcomes, missed call recovery rate, and estimated ROI impact (20–30% revenue uplift for SMBs).
- Built on a composable agent pipeline: Whisper STT → GPT-4o / Claude orchestration → ElevenLabs TTS, deployed via Docker on cloud infrastructure.

### Scanwise — AI-Powered SaaS for Dental Clinics

*A full-stack clinical AI platform automating dental scan ingestion, AI-driven diagnosis, and patient communication workflows.*

- Automates DICOM file fetching and upload pipelines, cutting manual effort by 70% per clinic.
- Generates AI-powered annotations on dental scans with defect detection, treatment suggestions, and confidence scoring.
- Produces automated, clinic-specific treatment plans with pricing; sends patient emails and appointment reminders via integrated comms layer.
- Centralized dentist dashboard for scans, treatment history, analytics, and ROI tracking.

## EDUCATION

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### BCA in Artificial Intelligence & Machine Learning

Graduated: 04/2024

UPES, Dehradun, Uttarakhand

- Vice Head — Community Student Chapter
- Board Member — Open Source Club
- Student Head — Microsoft Learn Student Ambassador Program