

Yamandeep Chaudhary

Backend Engineer · Legal-Tech · Data Science

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■ Full portfolio — live projects, screenshots & build log: yamandeep.in

SUMMARY

CS undergraduate (B.Tech CSE · UIET MDU + BS Data Science · IIT Madras) with production software development experience at IO2i Outsourcing Pvt. Ltd. — a legal-tech firm building platforms for law firms and financial institutions. Independently shipped **trackmypost.in** (live PWA, Google-indexed), built a **multi-tenant B2B portal** for banks and NBFCs with HMAC-signed cryptographic tenant isolation, and delivered **Resolution Desk v1.3.0** — a full-stack borrower ODR portal. Core stack: Python, Rust, FastAPI, Yew/WASM, Leptos — from architecture to deployment.

EXPERIENCE

Software Developer Intern — Legal Product Division

IO2i Outsourcing Pvt. Ltd. (Lawtech) · Faridabad · Mar 2025 – Aug 2026

- Rebuilt an internal India Post tracking tool into a fully independent public product — **trackmypost.in** — using a Rust/Yew (WASM) frontend + FastAPI async backend; PWA-installable, Google-indexed, live and free for the public.
- Architected and shipped **Resolution Desk v1.3.0**: self-service borrower ODR portal with dual-format case ID login (LAN/ARB auto-detected), OTP verification (email-priority routing to optimise SMS costs), QR-code notices, and Zoom-integrated hearing scheduler.
- Designed and delivered a **multi-tenant B2B Financial Institution Portal** for banks and NBFCs: host-based tenancy via X-Tenant-Host headers, HMAC SHA-256 signed Central Authority sync, TenantConfig injected via ContextVar — cross-tenant leakage structurally impossible.
- Built Zoom API integration for legal firms — one click schedules a meeting with enforced security settings (waiting rooms, no-join-before-host), and a webhook listener dispatches recordings to attendees automatically; eliminated ~80% of manual coordination effort.
- Implemented observability layer across all services: Prometheus metrics, structured JSON logging, and ContextVar-based distributed tracing.

Teaching Assistant (Ex)

Coding Ninjas · Remote · 2023 – 2024

- Mentored learners in Python, Data Structures & Algorithms, and debugging; improved learner outcomes by resolving conceptual queries across the platform.

EDUCATION

B.Tech — Computer Science & Engineering	UIET, MDU Rohtak	2022 – 2026 (Pursuing)
BS — Data Science & Applications	IIT Madras (Online)	2023 – 2026 (Pursuing)
Class XII & X	Lingaya's Public School, Faridabad	2022 / 2020

PROJECTS

trackmypost.in

Live · PWA · Google-Indexed · yamandeep.in/projects/trackmypost

Internal IO2i tool rebuilt as a public product. Rust/Yew (WASM) frontend + FastAPI async backend. Single lookup + bulk CSV tracking. Dynamic OTP routing, PWA-installable, Google-indexed. Serves real users; no account required.

[Rust](#) · [Yew](#) · [WebAssembly](#) · [FastAPI](#) · [Python](#) · [Async I/O](#) · [PWA](#) · [SEO](#)

Resolution Desk v1.3.0

Live · Legal-Tech · IO2i · ODR Portal

Self-service borrower portal for online dispute resolution. Dual ID login (LAN/ARB, auto-detected), OTP with email-priority routing, QR-code notices. Dashboard: case stats, active case table, document upload, Zoom scheduler, notifications.

[Python](#) · [FastAPI](#) · [MySQL](#) · [OTP Auth](#) · [Zoom API](#) · [Webhooks](#) · [Case Management](#)

B2B Financial Institution Portal

Live · Legal-Tech · IO2i · Multi-Tenant

Multi-tenant ODR dashboard for banks and NBFCs managing arbitration portfolios. Host-based tenancy (X-Tenant-Host), HMAC SHA-256 signed Central Authority sync, TenantConfig via ContextVar — cryptographic data isolation between tenants.

[Python 3](#) · [FastAPI](#) · [Pydantic](#) · [HTTPX](#) · [Rust](#) · [Leptos](#) · [WebAssembly](#) · [Docker](#) · [Nginx](#) · [HMAC SHA-256](#)

Legal Meeting Automator

Production · IO2i · Zoom API

End-to-end lifecycle automation for virtual hearings. One click schedules Zoom with strict security configs; webhook listener catches recording events and dispatches links to all attendees via email automatically.

[Python](#) · [Zoom API](#) · [Webhooks](#) · [Automation](#)

IoT Smart Home Dashboard

Hardware Project

Raspberry Pi wired to multi-channel relays to control high-voltage appliances. Mosquitto MQTT broker for low-latency bi-directional comms. Python daemon listens to MQTT topics and triggers GPIO pins in real time.

[Raspberry Pi](#) · [MQTT](#) · [Python](#) · [IoT](#) · [GPIO](#)

EarlyWatch — Health Risk Predictor

Academic · Machine Learning

ML models (Logistic Regression, Random Forest & SVM) on 5,000+ clinical records with preprocessing, feature engineering & hyperparameter tuning. Achieved 92% accuracy.

[Python](#) · [Scikit-learn](#) · [Pandas](#) · [Feature Engineering](#)

Cross-Platform Automation Bot

Automation

Selenium bot for bulk WhatsApp messaging & cross-platform data transfers. Headless navigation of dynamic DOMs, session management, multi-API support, retry logic, CSV imports, delivery status logging — zero manual intervention.

[Python](#) · [Selenium](#) · [CSV Automation](#) · [Multi-API](#) · [Web Scraping](#)

TECHNICAL SKILLS

Languages	Python 3, Rust, TypeScript, SQL, C++
Frameworks	FastAPI, Yew (Rust/WASM), Leptos, React, Next.js, Uvicorn, Pydantic, HTTPX, SQLAlchemy
Infrastructure	Docker, Nginx, Linux, Git/GitHub, REST APIs
Data & ML	Pandas, NumPy, Scikit-learn, Jupyter
Security & Obs.	HMAC SHA-256, OTP flows, Prometheus, JSON logging, ContextVar tracing
Domains	Legal-Tech, ODR, Multi-tenancy, IoT, PWA, SEO, Automation, Cloud Basics
Core Concepts	SDLC, RBAC, Async I/O, WebAssembly, Webhooks, Distributed Tracing

ENGINEERING WRITING

- **Why I rebuilt India Post tracking in Rust and WebAssembly** — From an internal firm tool to a public-facing app that ranks on Google · yamandeep.in/blog/building-trackmypost
- **Designing authentication for people who've never created a password** — OTP-based login for borrowers who only have a case number · yamandeep.in/blog/resolution-desk-casestudy
- **Multi-tenancy without a database: ContextVar isolation in FastAPI** — Architecture behind the B2B Financial Institution Portal · yamandeep.in/blog/b2b-multitenant-arch

CERTIFICATIONS

- [Certificate of Excellence — Python Programming · Coding Ninjas](#)
- [Certificate of Excellence — Python DSA · Coding Ninjas](#)
- [Admission Letter — BS Data Science & Applications · IIT Madras](#)
- [Teaching Assistant Certificate · Coding Ninjas](#)