Aryan Rastogi

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Education

Manipal University Jaipur — Jaipur, India
B.Tech in Computer Science and Engineering | CGPA: 8.77/10 — *Sept 2024 – May 2028*

Technical Skills

Languages: C, C++, Python, Kotlin, SQL, TypeScript, JavaScript
CS Fundamentals: Data Structures & Algorithms, OOP, DBMS, Operating Systems, Computer Networks
AI/ML: PyTorch, TensorFlow, scikit-learn, Hugging Face Transformers, OpenCV, YOLOv8, LangChain
Software & Cloud: React, Next.js, Node.js, FastAPI, REST APIs, PostgreSQL, Supabase, Docker, AWS, GCP, Git

Work Experience

Hewlett Packard Enterprise — Jaipur, India
Career Preview Program – CPP-2 — *Sept 2026 – Present*

- Selected for HPE's pre-internship industry track; developing an *AI-Based Autonomous System Validation & Reliability Checker*, a predictive disk-failure detection and self-healing agent for server fleets under HPE mentor guidance.

Sylus AI — Remote
AI Engineer Intern — *April 2026 – Sept 2026*

- Engineered the platform end-to-end from a greenfield repository to production, owning authentication, database schema, and core architecture across 180+ commits; scaled it into a multi-tenant AI content platform.
- Designed and shipped a 9-phase agency system (RBAC, approval workflows, client portal, invites, real-time collaboration) from scratch, taking the product from single-user to multi-brand agency-ready.
- Built the AI content engine (multi-model LLM copywriting, live Google News trend discovery, AI image generation) and a document intelligence pipeline auto-extracting and scheduling posts from PDFs, Excel, and Word docs.
- Hardened the platform for production: patched security vulnerabilities across auth, API endpoints, and middleware (SSRF, CORS), and stabilized deployment across Cloud Run and Docker.

Elumina Street Solutions — Remote
AI Research & Development Intern — *March 2025 – June 2025*

- Developed a MobileNet-CNN/LSTM violence detector in TensorFlow, addressing class imbalance with focal loss and class weighting; separately implemented YOLOv8/OpenCV weapon detection and optimized model hyperparameters.

AI2: Computational Linguistics & Vision Lab — Jaipur, India
Research Intern — *Jan 2025 – Present*

- Built taxonomy-guided safety evaluation pipelines that benchmark LLMs aligned via SFT, LoRA, DPO, and RLHF against categorized harm prompts, quantifying the trade-off between alignment, output creativity, and semantic entropy.

Projects

Petal – Intent-to-Execution PDF Engine | *petal.aryy.in*

- Architected a Plan-and-Execute engine that compiles natural-language prompts into deterministic, validated DAG workflows spanning 35+ PDF operations, separating LLM reasoning from document execution.
- Built real-time SSE progress streaming and a two-stage verification pipeline combining structural PDF checks with vision-LLM inspection; added defenses against indirect prompt injection.
- Deployed on GCP Cloud Run with Supabase Postgres, Google sign-in, and Cloud Storage with signed URLs for direct 100 MB uploads, backed by 270+ automated tests in CI.

MinGraph – Graph Algorithms & Pathfinding Visualizer | *mingraph.aryy.in*

- Built an interactive pathfinding visualizer over Jaipur's road network (257,620 nodes, 557,385 directed edges), implementing Dijkstra, A*, BFS, and Bidirectional Dijkstra in C++17 with a custom binary min-heap.
- Ran searches in Web Workers and streamed step-level traces to deck.gl/MapLibre, enabling live frontier tracking, replay controls, and side-by-side algorithm comparison.

Lattice – AI Text Rewriter | *lattice.aryy.in* | *400+ users, 52 countries*

- Built and launched a tool that makes AI-generated text read naturally through a multi-language translation chain; grew organically to 400+ users across 52 countries.

UniWay – Campus Navigation Platform | *uniway.aryy.in* | *Hackathon Winner*

- Developed a campus navigation platform with interactive maps, smart search, and route guidance using React, TypeScript, Leaflet, and Google Maps API; won 1st place and led to a project collaboration with SFedU, Russia, to develop a platform for international students.

Achievements

Amazon ML Summer School 2026: Selected among 3,000 participants from 1.34 lakh registrants nationwide.
National Road Safety Hackathon (IIT Madras): Placed among the top 10 teams out of 3,500+; presented RoadEye and signed an NDA with the CoERS panel.
Student Excellence Award: Received consecutively in the 3rd and 4th semesters at MUJ for academic and extracurricular performance.