Himanshu Kumar

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Summary

Software engineer (B.Tech ECE-CS, 2027) building **LLM agents**, **backend APIs**, and **C++ automation** in Python, C++, and TypeScript. Shipped an RF test tool used by engineers and 3 approved PRs to a YC-backed SDK.

Education

Jaypee Institute of Information Technology — Noida, India
B.Tech in Electronics and Communication Engineering (ECE-CS) — *2023 – 2027*

Work Experience

Software Engineering Intern | **JV Micronics** — May 2026 – July 2026
Antenna Measurement & Automation Software (GitHub) | *C++17, Qt6, SCPI, GPIB* — *Faridabad, India*

- Built a production Windows tool in **C++17 / Qt6** that drives a Keysight FieldFox N9951B VNA over **SCPI (GPIB/USB)**, replacing manual RF test runs and cutting a full antenna sweep from 10 hours to 7 hours.
- Designed a layered architecture (instrument control, data acquisition, positioner automation, test sequencing) so new instruments and test plans plug in without touching the UI.
- Shipped a real-time **Qt GUI** for test setup and live plots, and auto-generated reports used by 50 engineers.

Open Source Contributor | **Corsair (YC W25)** — Oct 2026
Open-source AI-agent integration SDK, 15K+ GitHub stars | *3 PRs, all approved by maintainers* — *TypeScript*

- **PR #1828**: Built the **Turbot Pipes** plugin end to end: 17 API modules, typed schemas, docs, 86 tests.
- **PR #1893**: Fixed **GitLab** delete sync for issues, MRs, and projects, ending stale agent data; added 14 tests.
- **PR #1892**: Fixed **Trello** to remove deleted cards and boards locally, keeping state in sync; added 4 tests.

Projects

Revenue Rescue Agent | *Python, FastAPI, PostgreSQL, Razorpay API* | GitHub | Live Demo — Sep 2026

- Developed an **autonomous AI agent** (Gemini, 5 tools) that ranks failed invoices, picks offers, and sends outreach.
- Isolated money logic from the LLM in **deterministic services** that enforce offer floors, compute recovery value, and validate payments, so the model cannot issue an unsafe discount.
- Trained an offer-acceptance model on 30K synthetic transactions; decisions become **Razorpay** payment links.

GitHub Commit Explorer (hyperSprint 2026 winner) | *React, Vite, GitHub REST API* | GitHub — Aug 2026

- Built a **natural-language search** component that parses queries like "github repo facebook/react" into user or repo lookups.
- Fetches commits, repos, and contribution calendars **in parallel** from the GitHub API, falling back to a second calendar provider on failure.

Technical Skills

Languages: C++, C, Python, TypeScript, SQL, Bash
Frameworks: FastAPI, React.js, Qt6, LangChain
AI/ML: RAG, LLM tool-calling / agents, OpenAI & Llama APIs, Hugging Face
Cloud & DevOps: Docker, GitHub Actions (CI/CD), AWS, Oracle Cloud (OCI), Linux, PostgreSQL
Hardware & EDA: SCPI/GPIB instrument control, MATLAB, ANSYS HFSS, Cadence Virtuoso

Achievements & Certifications

- **Winner, hyperSprint 2026** (hyperDart hackathon at JIIT) for GitHub Commit Explorer. [Certificate]
- **500+ DSA problems** solved; **1700+** LeetCode rating, **Pupil(1350+)** on Codeforces.
- **Oracle Cloud Infrastructure (OCI) DevOps** certified (CI/CD, containers, deployment). [Certificate]

Leadership

Secretary | IEEE AP-S Student Chapter, JIIT — 2025 – Present

- Lead chapter operations across executives, faculty, and students; organized 5 RF and wireless workshops.