

Avneesh Rai

CodeChef [↗](#) | Leetcode [↗](#) | LinkedIn [↗](#) | GitHub [↗](#)

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EDUCATION

Indian Institute Of Information Technology, Lucknow
B.Tech in Computer Science and Business

Lucknow, India
Dec 2021 – Present

EXPERIENCE

Backend & AI Engineer

OrbitAIM Technologies LLP

March 2025 – Present

Greater Noida, India

- Shipped an AI cold-outreach engine (FastAPI) for email, LinkedIn, and WhatsApp via a multi-LLM router.
- Designed an async workflow engine with a typed Node/Flow/Workflow SDK compiling to a parallel DAG runner.
- Built a B2B lead-intelligence service (FastAPI + asyncpg) with multi-filter search + LinkedIn enrichment.

PROJECTS

Multi-Tenant SMTP Server [↗](#)

2026

FastAPI, AWS SES/SQS/SNS, PostgreSQL, asyncpg, Pydantic, Server-Sent Events, dnspython

- Built a multi-tenant email platform on AWS SES with a 5-stage send pipeline over 13 endpoints.
- Decoupled sending via SQS, automated DKIM/SPF/DMARC onboarding, streamed live events over SSE.

OptiPEB — STAAD.Pro Automation Suite [↗](#)

2026

FastAPI, Next.js, OpenSTAAD (COM), pywin32, PyNiteFEA, OpenSeesPy, ezdxf, Nuitka

- Shipped a STAAD.Pro app (FastAPI + Next.js) as a single Windows .exe over the OpenSTAAD COM API.
- Automated reactions, anchor-bolt design, and DXF drawings; added licensed silent auto-updates.

Deep Research — Agentic AI [↗](#)

2025

FastAPI, AWS Bedrock, LangChain, Tavily, PyTorch, SentenceTransformers, boto3

- Built an autonomous agent running a Claude tool-calling loop over 5 tools to self-plan research.
- Added a 3-depth pipeline that decomposes queries, scores coverage gaps, and fills them via search.

News Scraper & Lead Intelligence Engine [↗](#)

2024

Python, asyncio, AWS Bedrock, pgvector, PostgreSQL, SentenceTransformers, feedparser

- Built an async pipeline turning 100+ articles/run from 16 sources into leads via a 2-stage LLM.
- Added pgvector semantic dedup over 1024-dim embeddings into a 14-table PostgreSQL schema.

TECHNICAL ACHIEVEMENTS

- **Rated 5★ on CodeChef**; solved **600+** competitive-programming problems across platforms.
- **LeetCode Rating 1735** — top **10%**; best global rank **971 / 21000+** (Biweekly Contest 89).
- **Cybersecurity**: Top **15%** among 13 Lakh+ participants on [TryHackMe](#).

LEADERSHIP EXPERIENCE

Founder & Coordinator, SERAPHIM Social Awareness Society IIIT Lucknow

- Led 5+ donation drives and a plantation drive, and ran 15+ awareness sessions engaging 100+ students each.

SKILLS

- **Languages**: Python, C++, C, Java, JavaScript, TypeScript, SQL, Bash
- **Backend**: FastAPI, Flask, Node.js, Express.js, REST APIs, WebSockets, Server-Sent Events, asyncio, Microservices
- **AI/ML**: AWS Bedrock, LangChain, LLM Tool-Calling & Agents, RAG, pgvector, SentenceTransformers, PyTorch, scikit-learn, Pandas, NumPy
- **Cloud (AWS)**: Simple Email Service (SES), Simple Queue Service (SQS), Simple Notification Service (SNS), Simple Storage Service (S3), CloudWatch, Secrets Manager
- **DevOps**: Docker, GitHub Actions, Jenkins, Ansible, CI/CD, Linux
- **Databases**: PostgreSQL, MongoDB, MySQL, Redis, asyncpg
- **Frontend**: React.js, Next.js, TailwindCSS, HTML, CSS
- **Tools & Practices**: Git/GitHub, pytest, Postman, Agile, System Design