

Nirmit Rampal

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• Ludhiana, Punjab, India

Professional Summary

Software engineer with hands-on experience in cloud infrastructure, data pipelines, and full-stack development. I build things that work, whether it is a production SaaS platform, an ML-powered routing engine, or a data analysis pipeline. I use AI tools (Copilot, OpenAI APIs, Ollama) to move faster, not as a substitute for engineering fundamentals.

Technical Skills

Languages	Python, JavaScript, C/C++, SQL
Web & Backend	Node.js, Express.js, React.js, REST APIs, MongoDB, MySQL
Cloud	AWS (EC2, S3, RDS, Lambda, IAM, CloudWatch), Cloud Architecture, CI/CD, Linux
Data & Analytics	Pandas, NumPy, Matplotlib, Seaborn, PySpark, EDA, MS Excel, Power BI
AI & ML	XGBoost, Scikit-learn, Deep Learning, Generative AI, OpenAI APIs, Ollama (local LLMs), Prompt Engineering, GitHub Copilot
Embedded & IoT	Arduino, ESP32, PCB Design
Tools	Git, GitHub, GitLab, Docker, Prisma ORM, Razorpay API

Education

Guru Nanak Dev Engineering College <i>B.Tech – Computer Science & Engineering</i>	<i>Ludhiana, Punjab</i> <i>Aug 2023 – May 2026</i>
Guru Nanak Dev Polytechnic College <i>Diploma – Electronics & Communication Engineering</i>	<i>Ludhiana, Punjab</i> <i>Sep 2020 – Jun 2023</i>

Professional Experience

Data Science Intern <i>Sun Foundation</i>	<i>Ludhiana, Punjab</i> <i>Jan 2026 – Present</i>
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- Working on applied ML and data science projects, gaining hands-on exposure to machine learning workflows, generative AI techniques, and large-scale data processing with PySpark.
- Exploring deep learning concepts and contributing to research-oriented experiments in an applied AI environment.

Department Head – CSE <i>Training & Placement Cell, GNDEC</i>	<i>Ludhiana, Punjab</i> <i>May 2025 – May 2026</i>
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- Manage end-to-end campus recruitment for CSE, maintaining active partnerships with 15+ corporate partners across cloud infrastructure and data analytics sectors.
- Coordinate placement drives, shortlisting, and company communication keeping all stakeholder workflows in a single structured pipeline to reduce turnaround time.
- Work directly with hiring teams to align student skill profiles with technical expectations in software engineering and data roles.

Digital Marketing Intern <i>Alphanumeric Ideas</i>	<i>Ludhiana, Punjab</i> <i>Jul 2022 – Aug 2022</i>
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- Ran keyword research and competitive analysis across client campaigns, improving organic search positioning through structured on-page SEO changes built a habit of measuring results, not just effort.

Technical Projects

ClassiRoute – LLM Routing Engine <i>Python, FastAPI, XGBoost, TypeScript, Docker</i>	<i>2025</i>	<i>GitHub</i>
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- Built a cost-aware LLM gateway that classifies prompt complexity using a custom XGBoost classifier (23 hand-engineered features, 92%+ accuracy) and routes to appropriate model tiers (Weak/Mid/Strong).
- Architected full system with FastAPI backend, JWT auth, virtual key management, Fernet-encrypted provider keys, SSE streaming, cascading fallback, and PostHog telemetry. Deployed on Vercel.

HopeOps – NGO Management SaaS Platform <i>Node.js, React.js, MongoDB, AWS</i>	<i>2025</i>	<i>GitHub</i>
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- Built a full-stack cloud-hosted SaaS platform for NGO operations donor tracking, volunteer coordination, and role-based access control across user tiers.
- Architected backend with Node.js/Express.js, MongoDB for document storage, deployed on AWS with CI/CD, JWT auth, and Razorpay payment integration.

Sales Data Analysis Pipeline <i>Python, Pandas, MS Power BI</i>	<i>2025</i>	<i>GitHub</i>
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- End-to-end EDA on sales records cleaned raw datasets, identified seasonal revenue trends, and visualised customer behaviour patterns to surface actionable findings.

Certifications

- AWS Academy Cloud Foundations** – *AWS [129811], 2025*
- Data Science Professional Training** – *4-Week Program, 2025*
- Digital Security** – *Value Added Course, 2025*
- Business Fundamentals for Entrepreneurs** – *NPTEL, 2024*
- Mastering the Semantic Web** – *4-Week Program, 2024*