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EDUCATION

Ontario Tech University

Master of Information Technology Security - Artificial Intelligence

Sep 2025 – Apr 2027

Ontario, Canada

Jawaharlal Nehru Technological University

Bachelor of Technology in Computer Science and Engineering

Aug 2020 – Apr 2024

Hyderabad, India

RELEVANT COURSEWORK

- Data Structures
- Operating Systems
- Cloud Computing
- Artificial Intelligence
- Computer Networking
- Database Management Systems
- Linux
- Web Development
- Computer Architecture
- Distributed Systems
- Network Security
- Compiler Design
- Mobile Application Development
- Data Mining

EXPERIENCE

Xelpmoc Design & Tech.

Software Engineer

Jan 2025 – Aug 2025

Hyderabad, India

- Architect-ed data ingestion pipeline for CSV datasets with **1M+** records, by **streamed** parsing, parallel **batching**, and MongoDB **bulk** operations.
- Developed dashboard using **Next.js** and **shadcn/ui** for **LLM** chat, files upload, version control, and text stream.
- Ensured **RBAC**, encrypted file storage, and **OpenAI** compatible API streaming for security and performance.
- Engineered **bank reconciliation** system, processing financial data supporting 10000+ files everyday.
- Developed pipelines for layout-aware, **transformer** based document analysis, and normalization.
- Rolled out rule-based logic, pattern recognition, and **fuzzy** matching for **92%+** accuracy in transaction reconciliation and automated workflows with **python**, **AWS lambda**, **pandas**.
- Deployed distributed job queues for document processing and **agentic** workflows using **BullMQ** and **Redis**.
- Crafted **OCR** pipelines for documents and forms, handling both handwritten and digital formats, achieving upto **95%+** data extraction accuracy.
- Built a no-code **RAG** experimentation platform with **LangChain**, supporting configurable loaders, embeddings, **vector DBs** (Pinecone, FAISS, Qdrant, Weaviate, Milvus), and **LLMs** (OpenAI, Cohere, Hugging Face).
- Established local and cloud-based benchmarking with metrics for **latency**, **token matching**, retrieval precision, and supporting rapid prototyping, **fine-tuning**, and deployment and could test 25+ RAG pipelines

Lumara Jewels

SDE-1 (Fullstack Developer)

Mar 2024 - Dec 2024

Hyderabad, India

- Built a **Server-Driven UI (SDUI)** with a **template engine** for dynamic components, enabling **real-time updates** without redeployments and improving iteration cycles by 50% like **Airbnb**.
- Created real-time product filtering using **elasticsearch** aggregations for category-aware faceted filters.
- Deployed resilient **sync pipelines** between **MongoDB** and **elasticsearch** using change **streams**, **bulk indexing**, and retry strategies, ensuring consistent data and **sub-20 ms** response times.
- Integrated **payment gateways** for transaction processing, supporting captures, refunds, and payment links.
- Designed **RESTful APIs** with **S2S** callbacks, and **webhook** verification to ensure data security and integrity.
- Released an **event-driven** system for payments with a **reconciliation layer** handling failures and concurrency.
- Constructed **Redis caching** for product filters, implementing invalidation and key-based **expiry policies**.
- Achieved a **60%** reduction in cold start latency and improving **filter load times** for better user experience.

Lumara Jewels

SDE Intern (Fullstack Developer)

Sept 2023 - Mar 2024

Hyderabad, India

- Implemented **SEO** in **Nextjs** with **SSR**, automated **metadata**, and self-healing canonical URLs to boost visibility.
- Integrated **JSON-LD** structured data for product pages, enabling rich search results, higher CTR, and improved **UX** with page insights score 100.
- Used **finite state machines** to maintain correct order states and ensure data consistency across systems.

- Hatched **pricing engine** using the **adapter pattern**, supporting material pricing, weights, and attributes.
- Created a custom **invoicing** and **mailing** system integrating AWS **S3** pre-signed uploads and **react-email** with **Resend**, supporting 30+ templates.
- Designed and delivered a configurable **promotion engine** enabling stacked rules, thresholds, and timed activations at **cart** and **product** levels.
- Enabled admin configuration and API-driven rule evaluation for seamless promotional control.

PROJECTS

Companion - Mobile Application for Sharing Notes Across University [\[click here\]](#) |

JavaScript, MongoDB, Flutter, Amazon Web Services AWS, Firebase

August 2023

- Launched a campus student app with 2000+ Play Store downloads and 200 daily active users.
- Enabled sharing of 500+ digital notes and real-time chat interactions, fostering academic collaboration.
- Orchestrated CI/CD pipelines and testing, ensuring smooth deployment and high-quality releases.
- Demonstrated technical expertise, Dev-ops practices, and market research skills, delivering a successful and impactful project.
- Utilized AWS S3 to store the documents and EC2 Instance with Elastic IP to host the backend service

Razorpay-MCP Server NPM Package [\(Click Here\)](#)

Node.js, Express.js, TypeScript, Razorpay

April 2024

- Authored an **open-source NPM package** called razorpay-mcp, a Model Context Protocol (MCP) (Anthropic) server enabling AI assistants like Cursor, Claude, and Copilot to access Razorpay payment gateway data.
- Implemented tools for fetching Razorpay data, including payments, orders, settlements, and more, with pagination support for large datasets.
- Ensured compatibility with multiple transport methods like stdio, SSE, and Docker, facilitating various deployment scenarios.
- Used **TypeScript** for strict type safety, authoring modular, testable code for easy extension.

TECHNICAL SKILLS

Languages: Javascript, Typescript, Go, Dart, Python, Java, C, HTML/CSS, SQL, Lua, Bash

Developer Tools: Git, Amazon Web Services (AWS), VS Code, Google Cloud Platform (GCP), Android Studio

Technologies/Frameworks: Langchain, Android, iOS, Notifications, IOT , Microsoft Excel, Linux/Unix, GitHub, Ansible, Flutter, Docker, Express.js, Node.js, Redux, Tanstack Query, React Query, GetX, Kafka, Service Bus, Grafana, Ubuntu, Windows, Posthog, Qdrant, Pinecone, Razorpay

Database: MongoDB, MYSQL, POSTGRESQL, Redis, Firestore, Simple DB

Cloud Technologies: EC2, ELB, Elastic IP's, S3, AMI, Cloudfront

ACHIEVEMENTS

- **Google Hack4Change – Winner [\[Click Here\]](#)** (Aug 2023, T-Hub, Google India, ISB): Engineered a CNN-based crop monitoring system that estimated nitrogen and water content from leaf imagery with 92% prediction accuracy, enabling data-driven yield optimization for farmers.
- **Dark Pattern Buster Hackathon** (Aug 2023, IIT BHU, Ministry of Consumer Affairs): Hatched an AI system to detect and track dark patterns in web interfaces, achieving 89% classification accuracy on benchmark datasets.
- **App Fiesta - Winner** (2023): Secured 1st place for engineering a full-stack **campus-connect mobile application** using **Flutter**, **Firebase**, and **MongoDB**. Delivered features including real-time messaging, event announcements, and resource sharing, and student engagement. Introduced **Material UI** for consistent design and cross-platform responsiveness.
- **Muffakham Jah Hackathon - Winner also Major League Hacking (MLH) [\[Click Here\]](#)** (2023): Won 2nd prize for building a novel and impactful solution that addressed a pressing challenge, showcasing both technical prowess and creativity.

PUBLICATIONS

- **A Mobile Application for Crop Optimisation using Satellite Imagery and Disease Detection using AI** IJRASET, ISSN: 2321-9653; Volume 12 Issue IV Apr 2024 [\[Click here\]](#)