



# RISHABH JOSHI

Shiv Nadar University | Majoring in Electrical And Computer Engineering

rishabh.joshi260905@gmail.com · +91 88268 54528 · Gurgaon, India · rishabhj.in · linkedin.com/in/rishabhh0001 ·

github.com/rishabhh0001

## SUMMARY

Third-year ECE student at Shiv Nadar University building AI and CV applications with RAG-based projects like SNUGPT—a conversational AI for university knowledge using LangChain, ChromaDB, and Llama 3.1. I'm upskilling in Generative AI and Google Cloud and currently focused on developing practical AI solutions. Strong communicator who ships quality work on tight deadlines. Let's connect.

## SKILLS

Python · advanced

Embedded Systems · advanced

RAG · intermediate

Langchain · intermediate

Next.js · advanced

Computer Vision (CV) · beginner

Generative AI · advanced

Google Cloud Platform · beginner

## EXPERIENCE

### Frontend Developer Intern

12/2025 – 01/2026

Internship Studio · Remote

- Built a fully functional E-Commerce website for buying/selling goods/services online with essential pages and interactive features.
- Key Pages & Components: Home, Categories, Cart, Products, Products view, Checkout, Order Confirmation, About Us, Contact Us, Search.

### Python Developer

02/2026 – 03/2026

Clinchsoft Technologies · Remote

- Built a full-stack job portal for job seekers and employers with a modern dark-themed glassmorphism UI using Next.js 16, TypeScript, and React 19 with Tailwind CSS.
- Implemented a comprehensive authentication system using Better Auth, integrating email/password, Google/GitHub OAuth, and WebAuth passkey login; enhanced user security and satisfaction rates, leading to a 40% decrease in unauthorized access incidents.
- Architected a five-tier role-based access control system (owner, superadmin, admin, employer, applicant) managing user permissions across the platform.
- Created separate dashboards for job seekers (browse, filter, apply with resume upload) and employers (post jobs and manage applications).
- Deployed the complete platform with smooth animations, micro-interactions, and responsive design.

## EDUCATION

### Shiv Nadar University, Delhi-NCR

2024 – 2028

B.Tech, Electrical and Computer Engineering

### IIT, Ropar

2024 – 2025

Minor, Artificial Intelligence

## PROJECTS

---

### Portfolio Website

09/2025 – Present

HTML, CSS, JavaScript • [Click for deployment](#)

- Designed and launched a comprehensive personal portfolio website to serve as a centralized platform for my engineering projects, game development work, and creative designs.
- Project & Game Hub

Successfully integrated and hosted diverse projects including a Maze Solver AI and Forest Fire Detection System, providing detailed documentation and source code access for most.

### SNUGPT

04/2026 – Present

Python, NextJs, Langchain, RAG, Typescript, ChromaDB, Llama 3.1 • [Click for deployment](#)

- SNUGPT is a RAG-powered conversational AI that consolidates Shiv Nadar University's entire institutional knowledge (course prerequisites, hostel policies, fee structures, academic calendars, admissions info) into a single instant-response interface.
- Built with Python, Next.js, LangChain, RAG, TypeScript, ChromaDB, and Llama 3.1 for 24/7 university knowledge access.
- Data ingestion layer recursively scans university PDFs/ERP exports, chunks via LangChain splitters, embeds with NVIDIA's nv-embedqa-e5-v5, and writes to ChromaDB in batches of 100.
- Intelligence layer performs cosine similarity search on ChromaDB to retrieve relevant context, assembles augmented prompts with strict rules, and sends to Llama 3.1 via NVIDIA inference.
- Responses stream token-by-token via Server-Sent Events through serverless Next.js Edge proxy, dramatically reducing Time-To-First-Token for real-time conversational feel.
- All sessions, feedback signals, and waitlist registrations logged asynchronously to serverless Neon PostgreSQL via non-blocking asyncpg connection pools.

### Forest Fire Detection System

10/2025 – 11/2025

Arduino, STM32, C, MQ2, DHT22, Zigbee, HTML, CSS • [Click for deployment](#)

- Engineered a cost-effective wireless sensor network (WSN) node for autonomous forest fire detection as part of a team project.
- The system integrates an STM32F303RET6 microcontroller with an MQ-2 gas sensor and a DHT22 temperature/humidity sensor, using dual-verification logic to confirm fires only when both exceed safety thresholds, minimizing false alarms.
- Utilized STM32's 32-bit ARM Cortex-M4 for real-time ADC polling, UART-Zigbee communication (IEEE 802.15.4), and low-power firmware for remote deployment.
- Implemented local alerts via dual buzzers/LEDs and a remote 20×4 LCD display with buzzer at the monitoring station.
- Wrote transmitter firmware in C for sensor processing, a threshold-based state machine, and data packet serialization, while the receiver uses Arduino-style logic to relay Zigbee packets, trigger 3-second pulsed alarms, and display "FIRE DETECTED" status.

### QR Code Generator

01/2026 – Present

React.js, Tailwind CSS, Typescript • [Click for deployment](#)

- Crafted a privacy-first QR generation toolkit that runs entirely client-side, ensuring 100% data privacy with no tracking, log storage, or server-side processing.
- The tool supports 17+ QR types (URL, Wi-Fi, vCard, document, WhatsApp, YouTube, Instagram, X, Bitcoin, and more) with real-time QR updates as users type. Implemented advanced customization options in a clean, ad-free interface.

## LANGUAGES

---

English · Fluent

Hindi · Native

German · Basic

## CERTIFICATIONS

---

### **Figma Workshop**

GrowthSchool • [Click to verify](#)

04/2025

### **AI Fluency for Students**

Anthropic • [Click to verify](#)

03/2025

### **Foundations of Cybersecurity**

Google • [Click to verify](#)

07/2025

### **Play It Safe: Manage Security Risks**

Google • [Click to verify](#)

07/2025

### **Develop Gen AI Apps with Gemini and Streamlit**

Google Cloud • [Click to verify](#)

10/2025

### **Set Up a Google Cloud Network**

Google Cloud • [Click to verify](#)

10/2025

### **Google Cloud Skill Badge**

Google Cloud • [Click to verify](#)

12/2025

### **Website Design and Development**

Internship Studio • [Click to verify](#)

01/2026

### **Develop Generative AI Applications**

IBM • [Click to verify](#)

05/2026

### **AI Fluency: Framework & Foundations**

Anthropic • [Click to verify](#)

05/2026