

NISHIT RANA

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EDUCATION

Arya College

Bachelor of Computer Application

Ludhiana, Punjab

2022 – 2025

Amrit Indo Canadian Academy

Class 10th and 12th

Ludhiana, Punjab

2020 – 2022

EXPERIENCE

SDE 1 Cognerd | Feb 2026 – Present

- Working as a Software Development Engineer focused on backend development and scalable system design.
- Building and maintaining backend services and APIs using Node.js, TypeScript, and Python.
- Working with cloud infrastructure, deployments, and AI-powered workflows.

Backend Developer Intern Welzin | Aug 2025 – Jan 2026

- Built scalable backend systems in Node.js and Python and developed production REST APIs.
- Deployed and managed applications on Linux servers using Nginx.
- Worked with n8n automation, Docker, Kubernetes, MongoDB, and RAG pipelines in a DevOps-oriented environment.

TECHNICAL SKILLS

Languages: C/C++, Python, JavaScript, TypeScript, HTML, CSS

Frameworks: Node.js, Express.js, Hono, Next.js, React, Vite, Django, EJS

Databases: MongoDB, MySQL, Cloudflare D1 (SQLite)

Cloud & Infra: Cloudflare Workers, KV, R2, Linux Server, Nginx, Docker, Kubernetes

AI & Agentic: RAG Pipelines, MCP, Generative AI, Agentic AI, n8n, Google Vertex AI, Gemini API

Security: JWT, bcrypt, AES-GCM, SHA-256, Web Crypto API

Developer Tools: Git, GitHub, VS Code, Postman, Wrangler, Vitest

CS Fundamentals: OOP, DSA, DBMS, Computer Networks, Software Engineering

PROJECTS

Cloudflare Edge Delivery Platform (AGXP) — [GitHub](#)

TypeScript · Hono · Cloudflare Workers / D1 / KV · JWT · React · Vite · Tailwind · Vitest

- Full-stack edge platform to deploy AI-optimized HTML variants on user-owned Cloudflare domains with JWT auth and analytics
- Cloudflare Workers backend (Hono/TS) with modular routes for auth, deployments, variants, and API-key-based analytics ingestion
- D1 (SQLite) schema for users, connections, deployments, variants, API keys, and AI request logs
- AES-GCM encryption for CF API tokens; deployment orchestration: KV namespaces, Worker scripts, route attachment, health checks
- Edge worker detects AI crawlers (GPTBot, ClaudeBot, Perplexity) and serves path-based KV variants, falling back to origin
- AI-assisted variant generation via Firecrawl + OpenRouter (Gemini); React + Vite dashboard for one-click deploy and analytics

Product-to-UGC AI Video Pipeline

n8n · Google Vertex AI (Veo 3.0) · Gemini 2.5 · Cloudflare R2 · MongoDB · React

- End-to-end n8n pipeline: webhook ingests product image → Gemini Vision creates UGC persona → 3 Veo-optimized 8-second ad scripts
- Vertex AI Veo 3.0 with async polling, native audio, and negative prompts to eliminate abrupt endings and RAI filter blocks
- Custom 9:16 first frame generated per script via Gemini image editing (720×1280) and passed as visual reference to Veo
- Videos stored in Cloudflare R2 (CDN); metadata in MongoDB; React dashboard renders all 3 variants side-by-side for review
- Multi-language: Hinglish, Punjabi, Tamil, Telugu, Marathi — each with region-specific persona, dialogue, and location context

E-Commerce Backend

Node.js · Express · MongoDB · JWT

- RESTful API for product catalogue, cart, and order management with role-based access control using JWT middleware
- MongoDB + Mongoose data modelling; secured all sensitive routes with authentication middleware

ACHIEVEMENTS

First Prize – Swift Surfer, Technothon 2022 (*PG Dept. of CS, Guru Nanak Khalsa College*)

Third Prize – Web Surfing, Tech Disha 2023 (*Arya College, Ludhiana*)

Third Prize – Web Surfing, Tech Disha 2024 (*Arya College, Ludhiana*)