



Vardan Pal

B.Tech in Information Technology (NIT Srinagar)
Software Engineer | Backend · Cloud · AI
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PROFESSIONAL SUMMARY

Software Engineer focused on backend systems, performance, reliability, and automation. Builds APIs and cloud services that improve system speed, testing, and developer workflows using Python, TypeScript, FastAPI, Node.js, PostgreSQL, MongoDB, Docker, AWS, and CI/CD, with additional work in RAG and secure AI systems.

EDUCATION

National Institute of Technology, Srinagar

B.Tech in **Information Technology** – CGPA: **7.23/10**

Aug 2022 – Aug 2026

Srinagar, India

– Coursework: Data Structures & Algorithms, DBMS, Operating Systems, Computer Networks, Cloud Computing

Army Public School (APS)

Grade 12 – 90% (2021)

Grade 10 – 92% (2019)

EXPERIENCE

Noventiq (Umbrella Infotech)

Software Engineering Intern – Cloud Native Applications

Nov 2024 – Feb 2025

Noida, India

- Cut **p95 MongoDB latency** from 800ms to 240ms across 12 microservices using compound indexes.
- Raised **Jest coverage** from 40% to 75% by modularizing Node.js/Express REST APIs.
- Cut developer setup from 2 days to 30 minutes with standardized **Docker Compose** environments.
- Automated testing, validation, and releases with **GitHub Actions CI/CD**.

PERSONAL PROJECTS

DocGuard – Security-First Corrective RAG Agent

Python, FastAPI, LangGraph, PostgreSQL, pgvector, Redis, Claude, OpenAI, Docker

June 2026 – July 2026

🐙 [GitHub](#)

- Built a secure document search system using **RAG** to improve answers and handle unsafe content.
- Added **PostgreSQL/pgvector**, Redis caching, and security checks for reliable document retrieval.

DevAgent-X – Autonomous PR Reviewer & Sandbox

Node.js, TypeScript, Express.js, Claude, Docker, GitHub REST API, Webhooks

Feb 2026 – Apr 2026

🐙 [GitHub](#)

- Built a **pull-request review** tool using Node.js, GitHub APIs, and Claude to automate code feedback.
- Used **Docker** sandboxes to safely run untrusted code with basic security checks.

LogiPulse – AI-Driven Supply Chain Routing

TypeScript, Node.js, PostgreSQL, MongoDB, Prisma, Redis, Docker

Jan 2026 – May 2026

🐙 [GitHub](#)

- Built a logistics routing system using **Dijkstra/A*** to find efficient routes under changing conditions.
- Added **OCR/RAG** for bill-of-lading data with PostgreSQL, MongoDB, and Redis.

TECHNICAL SKILLS

Languages: Python, TypeScript, JavaScript, SQL, C++

Backend: FastAPI, Node.js, Express.js, REST APIs, Microservices, JWT, Webhooks, Authentication

Databases: PostgreSQL, pgvector, MongoDB, Redis, Prisma ORM

Testing: Jest, Pytest, API Testing, Automated Testing, Regression Testing

AI/LLM: LangGraph, RAG, AI Agents, Vector Search, Embeddings, HNSW, OCR, LLM APIs

Cloud/DevOps: AWS, Docker, Docker Compose, Git, GitHub Actions, CI/CD, Linux

Security: Prompt Injection Detection, PII Detection, Secret Detection, Secure Sandboxing

LEADERSHIP & CERTIFICATIONS

- **Semicolon, NIT Srinagar – Coding Team Lead** | Led the coding team and coordinated technical activities
- **AWS Certified Cloud Practitioner** | AWS cloud fundamentals, IAM, security, and core services
- **JPMorgan Chase & Co. SWE Simulation** | Forage: REST APIs, Kafka, and financial-data workflows
- **Anthropic Claude Course Certificates** | Claude 101, Claude Code in Action, and Claude Cowork