

Aveeck Kumar Pandey

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PROFESSIONAL SUMMARY

Software Engineer and B.Tech Computer Science graduate (SRM University, CGPA 8.42/10) with experience building **production full-stack applications, distributed backend systems, Go/Python APIs, AI automation, and data platforms**. Delivered secure commerce systems, LLM workflows, analytics tooling, and RAG applications using Next.js, Go, Python, PostgreSQL, Redis, Docker, AWS, and Railway, with emphasis on scalable APIs, caching, idempotency, authentication security, and server-authoritative data flows.

EXPERIENCE

Roster (Creator-Economy Marketplace)

Jun 2026 – Present

Software Engineering Intern – Analytics & Automation

Remote

- Shipped a **Retool/MySQL analytics dashboard with 7+ live views** covering acquisition funnels, revenue, attribution, geography, and MAU, giving leadership a consolidated operational reporting layer.
- Engineered SQL attribution across **5+ acquisition channels** using CASE-based bucketing and reconciled revenue discrepancies to improve reporting consistency.
- Designed and deployed **3 production n8n automations** on AWS EC2/Docker, including a **47-node LLM support workflow** with automated classification, Slack drafting, and human approval.

Rise Against

Frontend Developer Intern (React)

- Developed responsive React interfaces for a warehouse-management application supporting inventory visibility and operational workflows.

EDUCATION

SRM Institute of Science and Technology (SRMIST)

Jun 2022 – May 2026

B.Tech in Computer Science and Engineering

CGPA: 8.42 / 10

TECHNICAL SKILLS

Languages: Go, TypeScript/JavaScript, Python, SQL, Java

Frontend & Backend: Next.js, React, FastAPI, REST APIs, JWT/OAuth, bcrypt, CSRF

Distributed Systems: Horizontal Scaling, Load Balancing, Redis Caching, Idempotency, Rate Limiting, Stateless APIs, Session Management, Fault Isolation

AI & Automation: LangChain, LangGraph, RAG, n8n, ChromaDB, Qdrant, Prompt Engineering, Gemini, SHAP

Data & Infrastructure: PostgreSQL, Redis, MySQL, MongoDB, Docker, Railway, AWS, Git, GitHub Actions

Data & Analytics: Retool, Power BI, Pandas, NumPy, Apache Spark, Hadoop (HDFS)

PROJECTS

YAFA VANAM – Beauty E-Commerce Platform

Next.js, React, TypeScript, Go, PostgreSQL, Redis, Docker, Railway

- Delivered **9+ core commerce experiences** including catalogue discovery, search, filtering, product variants, quick shop, cart, accounts, contact flows, and a personalized kit builder.
- Developed a **Go commerce API covering 7+ server-authoritative operations** for product validation, cart pricing, quantity updates, inventory checks, pending-order creation, and idempotent request processing.
- Implemented authentication gating for **2 critical purchase actions - Add to Bag and checkout**, preserving unrestricted catalogue browsing while automatically resuming interrupted actions after successful authentication.
- Added **10+ authentication and API security controls** including bcrypt, JWT access/refresh cookies, CSRF, Google OAuth, Redis-backed token rotation, session revocation, rate limiting, CORS, security headers, and ownership checks.
- Replaced browser-controlled commerce state with **server-authoritative product, inventory, quantity, ownership, and pricing validation**, reducing trust in client-controlled input.
- Structured the backend around **stateless Go API instances, PostgreSQL persistence, Redis-backed session state, idempotent writes, and horizontally scalable service boundaries** for distributed deployment.
- Designed a **high-scale reference architecture for a 1 million requests/second workload** using stateless nodes, horizontal partitioning, multi-layer caching, load balancing, asynchronous processing, backpressure, and rate limiting; documented as a system-design target, not a production benchmark.
- Containerized a **4-service development stack** (PostgreSQL, Redis, Go API, recommendation engine), deployed Next.js with **2 Railway-managed data services**, and validated releases with TypeScript checks, production builds, and Go tests.

SynchroAI – AI-Powered Career Strategist

Jan 2025 – Mar 2025

Next.js, Gemini API, LangChain, Chrome Extension

- Launched an AI Chrome Extension adopted by **20+ beta users** for LinkedIn profile optimization; engineered **5+ REST API endpoints with sub-300ms responses**.
- Implemented **3-step LangChain reasoning pipelines**, improving resume-to-job alignment by **30%**.

NeuroXAI – Explainable Clinical AI Screening

2025

FastAPI, Next.js, SHAP, scikit-learn

- Created an explainable chronic-disease screening platform exposing model confidence and SHAP feature contributions; validated outputs with **25+ healthcare professionals** for interpretability and usability feedback.

RAG PDF Chat Assistant – Grounded Document Q&A

Python, LangChain, ChromaDB, LLM

- Architected a **4-stage RAG pipeline** covering chunking, embedding, vector retrieval, and grounded generation to answer questions over PDFs with source-level citations.

ACHIEVEMENTS & CERTIFICATIONS

- Published research on an **XAI/SHAP framework for chronic-disease prediction** in academic format.
- NPTEL Cloud Computing (ELITE)** – IIT Kharagpur, 2025.