Ayush Pandey

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Career Objectives

Seeking a challenging software engineering role to leverage my expertise in full-stack development and problem-solving skills to contribute to innovative projects and drive technological advancement. Innovating to return back to the society. Eager Learner.

Education

Institution	Degree/Program	Duration	Grade/CGPA
VIT Bhopal University, Bhopal	B.Tech Computer Science & Engineering	2022 - 2026	8.56/10
Lucky Bal Niketan Sr. Sec. School, Jodhpur	Intermediate XII/High School X	2020 - 2022	80.2% ; 89.80 %

Technical Skills

Languages　　C++, C, Java, Python, TypeScript

Web Development　　React, Angular, Node.js, HTML/CSS, Spring Boot

Databases　　MySQL, MongoDB, PostgreSQL, Prisma, Drizzle, ORM

Concepts　　Object-Oriented Programming, Operating Systems, SDLC, Testing , Dataset Analysys.

Other　　Docker, Git, RESTful APIs ,Kafka, upstash Redish, websockets, Jest, Postman, Linux, AWS, GCP.

Projects

Quant Calendar *(Next.js, Redis, Binance API, Postgres, S3)* quantcal.vercel.app　　**June 2024 - July 2025**
– Engineered a high-availability platform with JWT authentication and a serverless Postgres backend to support 100+ concurrent users.
– Orchestrated a real-time data pipeline from the Binance API, processing over 10,000 data points per minute for dynamic financial charts.
– Constructed a modular UI with 20+ reusable React components, accelerating new feature development by 30%.

Grocify Mart (Multivendor E-Commerce) *(Next.js, HF, Vercel AI SDK)* grocifymart.vercel.app　　**June 2023 - November 2023**
– Optimized frontend performance to achieve a 95+ Lighthouse score and reduce page load times by 40% using Next.js 14 and SSR.
– Integrated a conversational AI assistant using Vercel AI SDK and Gemini, automating 5+ key workflows and reducing task completion time by 60%.
– Designed a secure, multi-tier authentication system with Drizzle ORM, enforcing role-based access control (RBAC) for 4 distinct user roles.

Angular & Spring Boot Blog App *(Angular, Spring Boot, MySQL, WebSocket)* server link　　**April 2023 - May 2023**
– Developed a scalable backend by architecting a Spring Boot REST API with over 15 endpoints, adhering to a strict service/repository pattern.
– Established a real-time notification channel for likes and comments with WebSockets, slashing data latency to under 100ms.
– Enhanced user experience by deploying optimistic UI updates and efficient server-side pagination for seamless browsing of 1000+ posts.

AI Bank Recommender *(FastAPI, LangChain, Streamlit, Gemini, MySQL)* bankbaba.streamlit.app　　**February 2024 - March 2024**
– Elevated personalized recommendation accuracy by 35% by pioneering a novel dual-chain LLM architecture.
– Streamlined user onboarding by automating document analysis with Tesseract OCR and FAISS vector search, processing time by 85%.
– Spearheaded the creation of a zero-touch data pipeline, eliminating 90% of manual entry and delivering recommendations in under 5 seconds.

Fraud Detection AI System *(Spring Boot, Kafka, MongoDB, Embeddings)*　　**Ongoing**
– Attained a 96% fraud detection accuracy rate by deploying a scalable, real-time Kafka event-streaming pipeline.
– Created a sub-50ms, low-latency detection engine by leveraging OpenAI Embeddings and MongoDB Atlas Vector Search.
– Accelerated model training by programmatically generating a synthetic dataset of over 1 million transactions and containerizing the system with Docker.

Internships

Software Engineering Intern — Kwkflowjob private limited　　**January 2025 – Current**
– Implemented a user-facing feature using **React** and **Node.js**, reducing page load time by approximately 20%.
– Integrated RESTful APIs and improved backend query performance by optimizing database indexes and queries.
– Collaborated with a cross-functional Agile team using Git, code reviews, and CI to deliver features on schedule.

Certificates

Google IT Support Professional Certificate (Coursera)　　**August 2023**

Oracle AI Foundations Associate (Oracle University)　　**August 2025**

Profiles/Achievements

- Leetcode: **600+ problems solved**, **Guardian badge** holder, 9th globally in Weekly Contest 437.
- Efficiently integrated a KD-Tree algorithm to optimize real-time nearest bus stop detection from user coordinates. Collaborated in BRTS (Bhopal Route Transit System Chatbot for native language) project by Omdena
- Qualified through two rounds in Asyncs Reimagine hackathon to rebuild and animate ISRO and Bluestone ISRO & Bluestone

Position Of Responsibilities

President　　**August 2022 – Present**
Linpack Club, VIT Bhopal University
– Strategized and organized coding events and workshops (2 Hackathons 3 large scale speaker sessions and workshops), on Fake currency detection using matlab resulting in a 50% increase in member participation and a 30% rise in new memberships.
– Mentored junior members, enhancing their coding skills and problem-solving techniques, leading to a 20% improvement in club performance. Managed More than 100 attendees in each event, overseeing fund management, PR, and all event logistics.