

# AYUSH PANDEY

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## Education

VIT Bhopal University, Bhopal

2022 - 2026

B.Tech Computer Science & Engineering

Grade/CGPA: 8.52/10

## Internships

Software Engineering Intern

Present

Kwkflowjob private limited

Remote

- Engineered the **React** frontend, establishing component architecture, routing, and code-splitting, which culminated in a **20%** reduction in median page load times.
- Spearheaded the integration of **AI** pipelines into frontend inputs to deliver **contextual recommendations**; orchestrated collaboration with **backend** and **product** teams on **API contracts** and the seamless onboarding of AI endpoints.
- Executed a comprehensive **SEO** strategy, including **metadata**, **structured data**, and sitemaps, and developed **automation/scraping** scripts that replaced manual product imports, enhancing operational efficiency.

## Technical Skills

**Languages:** C++, C, Java, Python, TypeScript

**Web Technologies:** React, Angular, Node.js, HTML/CSS, Spring Boot

**Databases & ORMs:** MySQL, MongoDB, PostgreSQL, Prisma, Drizzle, ORM

**CI/CD:** Docker, Git, RESTful APIs, Kafka, Upstash Redis, WebSockets, Jest, Postman, Linux, AWS, GCP

## Projects

Grocify Mart (Multivendor E-Commerce) | *Next.js, HF, Vercel AI SDK*

[Live Link](#)

- Achieved a **95+ Lighthouse score** and slashed page load times by **40%** by optimizing frontend performance with Next.js 14 and Server-Side Rendering (SSR). [grocifymart.vercel.app](#)
- Deployed a **conversational AI assistant** using the Vercel AI SDK and Gemini, automating over **5 key workflows** and decreasing task completion time by **60%**.
- Architected a **secure, multi-tier authentication system** featuring Drizzle ORM, which enforces **role-based access control (RBAC)** across 4 distinct user roles.

Momentum (AI-Powered Productivity Engine) | *Next.js, Go, PostgreSQL, Redis*

[Github Link](#)

- Constructed an AI-Powered Productivity Engine with a dual user-manager system, empowering managers to assign, verify, and approve tasks, thereby boosting user accountability.
- Launched a real-time, competitive quiz feature for test preparation, accommodating up to **6 simultaneous players** with speed-based scoring from a vast library of over **1000 questions** across **8+ categories**.
- Integrated **Google Calendar** to streamline task scheduling and management, simplifying the workflow for both.

Bulk Certificate and Pass Generator | *Next.js, TypeScript, Tailwind CSS*

- Developed a comprehensive web application to design and generate thousands of personalized event passes and certificates from CSV data, automating a previously manual process.
- Implemented a secure QR code verification system utilizing **SHA-256 hashing** for instantaneous credential validation, enhancing event security.
- Automated the distribution process via a built-in email system, enabling the bulk sending of personalized documents.

Fraud Detection AI System | *Python, Kafka, Random Forest, Scikit-learn*

- Attained a **99.95% accuracy** and a **0.94 ROC-AUC** score by training a **Random Forest Classifier** on the 'ccprod' dataset with fine-tuned hyperparameters.
- Engineered a **sub-millisecond prediction pipeline** to process **10,000 TPS** using **16 parallel consumers and predictors**, supporting 300 concurrent users in real-time.
- Built a **scalable Kafka event-streaming architecture** with configurable batch processing, which achieved **92.77% precision** and **78.57% recall** in fraud detection, as validated by **Locust** performance testing.

## Achievements

- Guardian at Leetcode:** Solved 600+ problems, earning the **Guardian** badge, and secured a global 9th rank in Weekly Contest 437.
- Omdena AI:** Integrated a KD-Tree into the Bhopal Route Transit System Chatbot project to enhance real-time query performance.
- Asyncs Reimagine Hackathon:** Advanced through rounds by implementing **Three.js** to animate 3D models of revamped **ISRO** and **Bluestone** projects. [Bluestone Link](#) [Isro Link](#)

## Certificates

AWS Certified Cloud Practitioner (Amazon Web Services training)

Certified DevOps Professional (Oracle University)

## Co-curricular Activities

- Linpack Club President:** Led 2 Hackathons and 3 large-scale speaker sessions/workshops (e.g., Fake currency detection using MATLAB), boosting member participation by 50% and new memberships by 30%.