

PRANJAL KHARE

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Education

Vellore Institute of Technology

2022 – 2026

Bachelor of Technology in Computer Science & Engineering

Bhopal, MP

- **CGPA: 9.32/10.0**
- **Relevant Coursework:** Data Structures, Database Management System, Computer Networks, Operating Systems

Technical Skills

Programming Languages:	C++, SQL, Javascript
Frameworks & Databases:	Next.js, Node.js, Express.js, MongoDB, MySQL
Cloud & DevOps:	Docker, AWS (EC2, S3, Lambda), Git, GitHub, Linux
Methodologies & Concepts:	OWASP Top 10, Agile Framework, Scrum.

Experience

Algo University (Y Combinator Backed)

May 2025 – July 2025

SWE Co-Op Intern

Remote

- Authored HLD and LLD documents to define scalable, fault-tolerant architecture for a new Online Judge platform under mentorship of senior Google engineers.
- Engineered secure code execution engine using Docker, applying sandboxing and resource constraints (CPU/memory) to isolate and safely process untrusted user code.
- Analyzed backend behavior and logs to identify performance bottlenecks, improving reliability under load.

Projects

Codeopedia – Online Judge Platform | *MERN Stack, Docker*

May 2025 – Aug 2025

- Built a full-stack online judge system with MERN, executing user code securely inside Docker.
- Implemented asynchronous job processing using worker services and queues.
- Designed MongoDB schemas for problems, test cases, and submissions with indexing and caching for high throughput.
- Developed responsive UI for coding problems, submission history, and leaderboards using React.
- Debugged execution failures using application logs and runtime behavior.
- Added compiler integration, automated test-case validation and detailed verdicts (TLE, WA, MLE).

JobMarshal – Job Platform | *Next.js, TypeScript, PostgreSQL, Stripe*

Aug 2024 – Dec 2024

- Built a full-stack multi-tenant SaaS platform for paid job postings using Next.js, PostgreSQL, Prisma, and Stripe.
- Designed secure tenant-isolated dashboards for companies to create, manage, and track job listings.
- Implemented automated job activation and expiration using Stripe webhooks and Injest workflows.
- Added job search, save, and apply features with presigned uploads and email alerts for job seekers.
- Handled edge cases and failures in asynchronous processes to improve system reliability.
- Integrated Arcjet security to reduce bot/spam traffic and improve overall platform reliability.

Achievements and Certifications

Achievements & Recognition

2024-2025

- **Algo University Elite Program** - Selected in top 1.4% from national pool of over 40,000 applicants
- **EY Techathon Finalist** - Advanced to final rounds of national-level hackathon, competing against 500+ teams
- **VIT Industrial Conclave Winner** - Awarded first place out of 50+ competing teams for Cyber Security project
- **Academic Excellence** - Consistently maintained 9.3+ GPA in all semesters

Certifications & Leadership

2023-2025

- **IBM Certified GenAI using WatsonX** - Certified in Generative AI principles and IBM Watsonx platform
- **Project Lead, VIT Industrial Conclave** - Led 5-member team throughout the project lifecycle