

ADITYA SINGH

CSE in Information Security
VIT Vellore

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EDUCATION

VIT, Vellore

Aug. 2023 – Current (2027)

B.Tech in Computer Science and Engineering (Information Security)

CGPA: 8.41

Delhi Public School, Vidyut Nagar

June 2009 – June 2023

Grade 12: 92.6%

TECHNICAL SKILLS

- **Languages:** HTML, CSS, Python, Java, C, C++, JavaScript, Golang, TypeScript, Dart, C#
- **Developer Tools:** GitHub, Git LFS, Linux, VS Code, Postman
- **Technologies/Frameworks:** Next.js, Node.js, React Native, Flutter, ReactJS, Godot, Tailwind CSS
- **Databases and Tools:** MySQL, PostgreSQL, Prisma, Redis, GORM

PROJECTS

EXAMCOOKER

Oct. 2024

Next.js, CockroachDB, Tailwind CSS, TypeScript, GCP, Prisma

- Engineered a scalable web platform providing past papers, syllabi, NPTEL quizzes, and notes, benefiting over 10,000+ users.
- Enhanced system efficiency by implementing parallel routing in the dashboard, improving navigation and responsiveness.
- Designed an advanced NPTEL preparation feature that increased concurrent user capacity by 25%, from 7,000 to 9,923.

CLI-TOP

Dec. 2024

Golang, Cobra, TUI

- Developed a command-line interface enabling seamless access to the college resource website for CLI users.
- Implemented features to facilitate payload transmission, data parsing, and terminal-based tabular visualization.

TAGRED (Maintainer)

July 2025

Godot Engine, C#, Git LFS

- Spearheaded development and configuration of a 3D horror game using Godot, managing a team of 15+ contributors.
- Solved complex object-oriented programming challenges in C# and optimized asset workflows using Git LFS.
- Led game logic structuring, asset management, and scene linking, ensuring seamless performance with heavy assets.
- Fostered collaborative development by streamlining version control and team communication.

MARINE

Jan. 2025

Kafka, TensorFlow, Azure VM, Google Dorking, Golang, Next.js

- Developed a distributed system to assist content owners in detecting pirated video content across the web.
- Engineered microservices for advanced video fingerprinting, web crawling, and metadata-based piracy detection.
- Built a scalable SaaS dashboard with a Golang backend and Next.js/TailwindCSS frontend for seamless user management.

EXPERIENCE

SDE Intern (NTPC Ltd.)

Jun. 2025

React Flow, Next.js, Golang, Redis, Tailwind CSS

- Developed a real-time LAN-hosted web tool to visualize and manage network devices across 11 areas.
- Integrated React Flow for drag-and-drop network layout with persistent area states and tooltips.
- Built Go backend for pinging devices, maintaining Redis storage, and triggering email alerts on status change.
- Enabled users to structure network topology dynamically and access the tool from any LAN-connected device.

EXTRACURRICULAR ACTIVITIES AND CERTIFICATIONS

Google Cybersecurity Specialization - Gained hands-on experience with Linux security and Python for cybersecurity applications.

Vit Event Management - Led technical festival coordination at VIT Vellore, ensuring successful event execution.

Hackathons - Achieved the *Best Freshers Award* in Cryptic Hunt 2023 and Reverse Coding competitions. Network Security track winner in DevSoc 25'

Clubs and Chapters - Senior Core Member in ACM-VIT, hosted many events and handled many backends and still handling 100+ junior OC.