

VEDANT ASTHANA

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EDUCATION

Nitte Meenakshi Institute of Technology | Bangalore, Karnataka

Expected Graduation: July 2028

B.E. in Computer Science and Engineering

- **CGPA:** 9.13 / 10.0
- **Coursework:** Data Structures & Algorithms, Object-Oriented Programming, Database Management System, Computer Networks, Computer Architecture & Microprocessors, Unix, Software Engineering & Project Management.

TECHNICAL SKILLS

- **Languages:** Java, Go (Golang), Python, C, TypeScript, JavaScript
- **Frontend & Mobile:** React.js, Next.js, React Native, Expo, Redux, Zustand, HTML5, CSS3, Tailwind CSS
- **Backend & Server:** GoLang, Go-Routines, Supabase, Node.js, Express.js, OAuth, WebSockets, REST APIs, JWT, Concurrency (Mutex)
- **Databases & Cloud:** PostgreSQL, Redis, MongoDB, MySQL, AWS (EC2/S3)
- **Developer Tools:** Docker, Linux, Bash, Git/GitHub, Unit Testing, Postman, Vercel

SOFTWARE PROJECTS

DropRoom

Apr - May 2026

React Native, Go, WebSockets, AWS EC2, PostgreSQL, MongoDB

- Architected an ephemeral, room-based real-time messaging client enabling users to dynamically join, chat, and exit sessions, secured via Google OAuth.
- Engineered a high-throughput Go WebSocket backend deployed on AWS EC2, integrating PostgreSQL for relational state and MongoDB for scalable message storage, supporting 100+ concurrent connections.

Custom Load Balancer & Concurrency Tool

Feb – Mar 2026

Go (Golang), HTTP Reverse Proxy, Mutex Synchronization, CLI Architecture

- Developed a custom network load balancer implementing a Round Robin scheduling algorithm to distribute HTTP reverse proxy traffic efficiently across 3+ distinct backend instances.
- Engineered vstrk, a highly concurrent CLI stress-testing client utilizing Go channels and mutex synchronization blocks to simulate 1,000+ concurrent requests, benchmarking server resilience.

Nitte Academia (Repo)

Jan – Feb 2026

Next.js, TypeScript, React, MongoDB, Tailwind CSS

- Deployed a centralized digital repository running Next.js Server-Side Rendering (SSR) for optimal content pre-rendering.
- Engineered a mentor-mentee portal serving 50+ campus peers, introducing resource indexing across 20+ distinct subject categories to eliminate resource fragmentation.

OPEN SOURCE CONTRIBUTIONS

MergeShip (Coder-s-OG-s)

C4GT | NSoC | GSSoC

- Authored 3 merged PRs for a Next.js repository, including engineering a client-side Clipboard API component integrated into server architecture for profile URL sharing ([PR #108](#)).
- Implemented robust edge-case testing in `detect.test.ts` to prevent client-side regressions ([PR #104](#)) and standardized cross-OS execution by configuring Git attributes to resolve CRLF/LF script issues ([PR #173](#)).

CERTIFICATIONS & ACHIEVEMENTS

- **Hackathon Track Prize (AI & Automation):** Won top honors for prototyping "[Recovera](#)", an automated cloud infrastructure diagnostic tool to parse AWS logs and send patches via GitHub PRs.
- **Smart India Hackathon 2025 (SIH):** Ranked Top 7 (Waitlisted) out of 500+ teams by prototyping "[Yukti](#)", an authenticated ecosystem targeted at tracking student extracurricular distributions.
- **Algorithmic Discipline:** Solved **270+** high-complexity challenges on LeetCode utilizing Java to build rapid pattern-recognition skills across linear and non-linear data structures.
- **MongoDB University Certifications:** Atlas Administrator Certificate, Introduction to MongoDB.
- **Infosys Springboard Certifications:** Software Engineering and Fundamentals, Programming With Java.
- **Google Cloud Certification:** Introduction to Generative AI.