

Ananya Shah

Aspiring Full Stack Developer, passionate about scalable, AI-powered web & mobile solutions

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EDUCATION

- B.Tech in Computer Science and Engineering - Vellore Institute of Technology (VIT), Vellore**
[Expected Graduation: 2027]
Current CGPA: 9.42/10
- Hiranandani Foundation School, Thane**
Class 12 (ISC) – 2023 | Percentage: 97.5%, Class 10 (ICSE) – 2021 | Percentage: 98%

TECHNICAL SKILLS

- Programming Languages:** Java (OOP, DSA), C/C++, Python, Dart (Flutter), Shell (Linux OS), Assembly Language
- Data Structures & Algorithms:** Solved 100+ problems across LeetCode (Weekly Contests #451, #452), HackerRank, and CodeChef; focused on core topics like arrays, trees, and graphs.
- Web & App Development:** HTML, CSS, JavaScript, React.js, Three.js, Vite, Flutter
- Databases & Backend:** MongoDB (Familiar- using with Node.js), Express.js
- Version Control & Deployment:** Git, GitHub, GitHub Actions, Netlify, Vercel
- Software Design & SDLC:** Agile/Scrum, UML (Class, Use Case, Sequence), COCOMO, Software Testing- Unit tests, TCD.
- AI & Natural Language Processing:** BERT, Random Forest, linguistic feature analysis, Bayesian Networks, Planning (A*, Minimax, Alpha-Beta), Currently exploring Deep Learning
- Security Practices:** Firebase Authentication, secure login, input validation
- Tools & Simulation:** Verilog HDL, MATLAB, Keil µVision, OrCAD, Figma (UI/UX), Cisco Packet Tracer (network topology design, routing & switching simulations)

EXPERIENCE

- Frontend Developer Intern @ Jurident, Valsco Technology pvt. Ltd.**
[June 2025 – Present] - Revamped company portal to improve mobile responsiveness and accessibility; raised Google Lighthouse Accessibility score from 59 to 79 and Best Practices from 86 to 96. Implemented scalable UI using React.js, Vite, and Tailwind CSS, enhancing user experience across devices.
- Quantum Route Optimization – Research Work, under Prof. Dhanoj Gupta, VIT**
[July 2024 – Present] - Working on real-world routing optimization using quantum algorithms like QAOA and quantum annealing. Co-authoring a research paper using Python, Qiskit, and advanced optimization techniques.
- Technical Core Committee Member @ Soft Computing Research Society (SCRS), VIT**
[March 2025 – Present] - Contributed to web development and supported technical initiatives for events, workshops, and hackathons at SCRS VIT.

PROJECTS

- Space Integration (Interior Designers React App):** Developed a high-performing 3D interior design web app (11/11 Performance, 7/8 Best Practices – Google Lighthouse) by using React and Three.js, integrating dynamic textures, image sliders, responsive forms, and user walkthroughs for enhanced experience. [GitHub](#)
- Portfolio Website:** Built and deployed a high-performing personal developer portfolio website on Vercel, achieving 10/10 Performance and 7/8 Best Practices scores on Google Lighthouse, using React, Tailwind CSS, and Framer Motion. ananya3.vercel.app/ | [GitHub](#)
- VerbaGen Flutter App:** Developed an AI-powered mobile app as part of a hackathon to help content creators generate culturally adaptive scripts from video links, leveraging Google’s Gemini API, Firebase, and Flutter. [Live Demo](#) | [GitHub](#)
- Automated Retail Store:** Engineered an automated retail system using Agile-Scrum; authored SRS, designed UML diagrams, and implemented test cases to ensure system reliability and timely delivery.

OPEN-SOURCE CONTRIBUTION

- Modular PSU - eez-open** - Contributed to the Modular PSU project (eez-open) by refining cross-platform shell scripts, enhancing compatibility and readability; deepened hands-on experience with open-source collaboration and version control. [Pull Request](#)

HACKATHONS AND ACHIEVEMENTS

- Hackathons:** Gemini API – Google, DevJams (48 hrs) – GDSC VIT, SharkTech – ADG VIT (Finalist), HackBattle – IEEE VIT, Ideathon – IIC VIT, Futurepreneurs – E-Cell VIT
- Achievements:** 1st rank in ISC 12th Boards (School Topper), Subject prizes in Physics & Chemistry, CISCE Scholarship, AIR 21,385 (JEE Adv), AIR 7,259 (VITEEE)