

Aradhye Swarup 10th: 96.4% | 12th: 93.4% | CGPA: 8.62

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PROFESSIONAL SUMMARY

Full-stack and backend developer with a focus on scalable, distributed, and cloud-native systems. Experience in building production-ready applications for real users. Demonstrated success in the deployment and optimization of distributed platforms for real users. Looking to contribute to Couchbase's distributed database engineering team.

EDUCATION

BTech in Computer Science and Engineering (CSE) | *Vellore Institute of Technology, Vellore* September 2022 - May 2026

- CGPA: 8.62. Relevant coursework: Data Structures & Algorithms, Distributed Systems, Design & Analysis of Algorithms, Theory of Computation, Discrete Mathematics, and Database Management Systems.

SKILLS & TECHNOLOGIES

Languages : C, C++, Python, Java, HTML, CSS, JavaScript, TypeScript, SQL, noSQL

Technologies & Tools : Unix/Linux, JUnit, PyTest, React.js, Next.js, TailwindCSS, Node.js, Django, FastAPI, Express.js, MongoDB

DevOps and Toolkits : Git, AWS, Docker, Kubernetes, Azure Cloud, Distributed Systems

Machine Learning Libraries : Numpy, Pandas, Seaborn, Scikit-learn, R, MATLAB

EXPERIENCE

Software Developer Intern | *algoleap* | [Website](#) May 2025 - July 2025

- Built an AI pipeline with Deepgram and Together.AI, reducing manual video review time by 70% for 200+ internal videos.
- Developed modular NLP workflows processing 15+ hours weekly with 95% accuracy and automated CSV export.
- Redesigned UML architecture for internal tools, improving maintainability and reducing technical debt by 40%.
- Created an internal presentation covering data science and ML tools, from R to TensorFlow, for team reference.

Founder | *nahneed.* | [Website](#) January 2025 - May 2025

- Founded creative technology platform combining full-stack development with AI-powered storytelling experiences.
- Scaled blurt. from 0 to 50+ users in 1 month, launched version 2.0 and learned software maintenance practices.
- Led product, design, and marketing; grew social media to 100+ followers with 15% weekly engagement.
- Advanced to final round at Pioniera startup convention, competing against teams from top universities.

PROJECTS

Echoid | *Next.js, FastAPI, XTTS-v2, Torch, Bun, Uvicorn, Soundfile, NumPy* | [Website](#) | [Github](#) June 2025

- Processed audio in under 3 seconds for 8 emotion variants in a distributed on-premise TTS platform, eliminating cloud dependency.
- Deployed on-premise TTS stack eliminating \$200+ monthly API costs for developers.
- Achieved real-time voice cloning without cloud dependencies.

Fortify | *MERN, Solidity, Hardhat, Python, Streamlit, FastAPI, Passport.js, WebAssembly* | [Website](#) | [Github](#) April 2025

- Reduced blockchain smart contract deployment latency to sub-500ms with distributed compilation pipeline.
- Built compiler pipeline achieving sub-500ms contract compilation and deployment.
- Integrated OAuth and multi-language support across 6 programming languages.

EvoPacts | *MERN, Solidity, Truffle, Web3.js, Flask, PyTorch, Scikit-learn, Plotly* | [Github](#) September 2023

- Designed for real-time agreement execution using smart contracts in simulated decentralized environments.
- Implemented automated execution with real-time performance tracking and transparent agreement handling.
- Integrated crypto payments processing \$10K+ in simulated transactions during demo.

ACHIEVEMENTS & CERTIFICATIONS

AWS Certified Solutions Architect - Associate | *Amazon Web Services* | [Certificate](#) July 2025

MLOps for Generative AI | *Google* | [Certificate](#) May 2025

LeetCode | *Solved 100+ problems across core DSA topics.* April 2025

Pioneira Finalist | *E-Cell's startup convention with nahneed. among 70+ teams.* March 2025

OCI 2024 Generative AI Professional | *Oracle* | [Certificate](#) July 2024

HackBattle Finalist | *IEEE's 36-hour hackathon with 100 teams.* September 2023

The Complete 2023 WebDev Bootcamp | *Udemy* | [Certificate](#) June 2023

EXTRA-CURRICULAR

Motion Graphics Head | *Indian Society for Technical Education (ISTE)* April 2024 -- May 2025

- Led a 10+ member motion graphics team, ensuring high-quality content and smooth project execution.
- Delivered a technical workshop on WebRTC and building a video chat application using WebSockets under ISTE.
- Hosted 5+ technical and design sessions, enhancing peer learning and community participation within ISTE.
- Trained team members in After Effects, improving their animation skills by 70%.