

Aradhye Swarup

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PROFESSIONAL SUMMARY

CS student with hands-on experience building full-stack applications and AI systems. Completed internship developing NLP workflows and video processing pipelines. Built multiple projects from concept to deployment, including an AI storytelling app that attracted real users. Looking for software engineering roles to apply technical skills and continue learning.

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, Design & Analysis of Algorithms, Theory of Computation, Discrete Mathematics, and Database Management Systems.

CERTIFICATIONS

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

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

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

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

SKILLS & TECHNOLOGIES

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

Frameworks : React.js, Next.js, Node.js, FastAPI, Express.js, TailwindCSS

Cloud & DevOps : AWS, Docker, Kubernetes, Azure, Git, GitHub Actions, Jenkins

Testing & Infrastructure : Jest, PyTest, AWS CloudFormation, Terraform

Databases : MongoDB, PostgreSQL, MySQL

EXPERIENCE

Software Developer Intern | *Algoleap Technologies Pvt. Ltd.* | [Website](#) May 2025 - July 2025

- Built video processing pipeline using Deepgram and Together.AI to automate content review workflows.
- Developed NLP system processing 15+ hours of content weekly with CSV export functionality.
- Redesigned system architecture using UML patterns to improve maintainability and scalability.
- Led technical training on DS & ML tools (R, TensorFlow) for cross-functional team.

PROJECTS

Echoid | *XTTS, FastAPI, Python, PyTorch, Pydantic, TypeScript, Vite, CloudFormation, Jenkins* | [Website](#) | [Github](#) June 2025

- Voice cloning application using XTTS-v2 and FastAPI backend with React frontend
- Clones voices from 10-second samples and generates instant speech in the same voice.
- Deployed backend on AWS EC2 via CloudFormation with S3 for asset storage.
- Implemented CI/CD pipeline using Jenkins to automate build, test, and deployment processes.

Blurt | *React, Vite, Node.js, Express, Mongoose, Passport.js, JWT, Vercel, CI/CD* | [Website](#) February 2025

- AI-driven storytelling platform that transforms news into WhatsApp-style group chats with character debates.
- Increased adoption from 35 to 75+ users by moving blurts from email to a dedicated online platform with richer interactions.
- Integrated Google OAuth authentication with animated onboarding flow for seamless user experience.
- Designed character backstory system driving narrative engagement and repeat user sessions.

Fortify | *Solidity, Hardhat, Python, Scikit-learn, Pandas, Numpy, REST API, MERN, Vite, MongoDB* | [Website](#) | [Github](#) April 2025

- Smart contract analysis tool with vulnerability detection.
- Integrated machine learning model for automated security assessment.
- Full-stack application with React frontend and Python backend.
- Containerized application with Docker for consistent deployment.

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

- Blockchain platform for sports contract management.
- Integrated ML model to check contract fairness and automated smart contract deployment with Truffle.
- Processed 900+ player records for contract valuation and analytics.
- Developed analytics dashboards with Plotly and Spider Graphs which increased actionable insights for users.

ACHIEVEMENTS

LeetCode | *Solved 200+ problems across core DSA topics.* April 2025

Pioneira Finalist | *Advanced to university startup competition finals with nahneed. platform.* March 2025

HackBattle Finalist | *IEEE competition recognition for innovative technical solution.* September 2023

EXTRA-CURRICULAR

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

- Delivered WebRTC workshop on video chat applications using WebSockets for technical community.
- Led chapter to Best Elite Technical recognition at VIT for outstanding performance.
- Judged ISTE Internal Hackathon 2025 evaluating technical solutions and mentoring participants.