

# Aradhya Swarup

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## PROFESSIONAL SUMMARY

AWS-certified Solutions Architect specializing in distributed systems and production AI. Built voice cloning platform, automated enterprise workflows, and scaled startup to university finals. Led technical workshops and delivered training to cross-functional teams. I architect scalable solutions that deliver real business value.

## 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.

## 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 AI video pipeline with Deepgram + Together.AI, reducing manual review by 70% for 200+ assets.
- Created NLP workflows processing 15+ hours weekly at 95% accuracy with automated CSV export.
- Redesigned system architecture using UML patterns, cutting technical debt by 40%.
- 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

- A voice cloning app that creates personalized voice notes, achieving 85% test coverage and 30% fewer bugs.
- Architected with Python, FastAPI, and voice cloning models for real-time, secure voice note generation.
- Deployed backend on AWS EC2 via CloudFormation, achieving 99.9% uptime and scalable, secure infrastructure.
- Built Jenkins CI/CD for streamlining releases and cutting manual deployment time by 70%.

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

- Launched an AI storytelling platform, and grew to 50+ users in the first 15 days.
- Scaled product to v2.0 while managing production maintenance and feedback, increasing users by 75%.
- Drove business strategy across product, design, marketing, growing social media to 100+ followers.
- Developed secure authentication with Passport.js and JWT, integrated OAuth and sessions, ensuring robust user privacy.

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

- Automated smart contract vulnerability detection with PyTest, reducing ML model bugs by 70%.
- Deployed frontend and backend in Docker containers, cutting environment setup time by 90%.
- Implemented CI/CD with GitHub Actions, achieving 100% test coverage and faster release cycles.
- Added Jest tests for React components, lowering frontend regression incidents by 60%.

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

- Sports contracts platform using Blockchain, ML and React which improved reliability by 30%.
- Integrated ML model to check contract fairness and automated smart contract deployment with Truffle.
- Enabled transparent, on-chain contract storage and crypto payments for secure, instant transactions.
- Built analytics dashboards with Plotly and Spider Graphs which increased actionable insights for users by 20%.

## ACHIEVEMENTS & CERTIFICATIONS

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

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

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

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

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

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

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