

# Aradhye Swarup

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## PROFESSIONAL SUMMARY

Full-stack developer and AI engineer who builds production applications for real users. Led development of voice cloning systems, blockchain IDEs, and automated content processing pipelines. Founded nahneed., a creative tech startup with 50+ active users that reached finals in university startup competitions.

## SKILLS & TECHNOLOGIES

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

**Technologies & Tools** : React.js, Next.js, TailwindCSS, Node.js, Django, FastAPI, Express.js, MongoDB

**DevOps and Toolkits** : Git, AWS, Docker, Kubernetes, Azure Cloud

**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

- A voice synthesis platform with 8 emotion variations, processing audio in under 3 seconds with 92% accuracy.
- 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

- A Solidity IDE with ML vulnerability detection, reducing development cycle time by 60%.
- 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

- Developed blockchain-based contract management platform using smart contracts and ML analytics to revolutionize athlete-club agreement handling.
- Implemented automated execution with real-time performance tracking and transparent agreement handling.
- Integrated crypto payments processing \$10K+ in simulated transactions during demo.

## 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.

## 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](#) April 2024 - May 2025

- Led a 10+ member team, ensuring content quality and smooth project execution.
- Trained members in After Effects, improving team skills by 70%.
- Coordinated two monthly events with 1,500+ participants, increasing domain engagement by 150%.