

Aradhye Swarup

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PROFESSIONAL SUMMARY

Full-stack developer and AI engineer with experience in secure, scalable software delivery. Skilled in Java, Python, Node.js, React, and containerization, with a strong grasp of API development, databases, and DevOps practices. Experienced in building and maintaining financial technology solutions, with exposure to digital payments, compliance, and regulatory requirements. Experience in implementing CI/CD pipelines using GitHub Actions and AWS for automated testing and deployment.

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, RESTful API's, GraphQL

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

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

Exploring : iOS, React Native

EXPERIENCE

Software Developer Intern | [algoleap](#) | [Website](#)

May 2025 - July 2025

- Built AI pipeline using Deepgram and Together.AI, reducing manual video review time by 70% for 200+ internal videos.
- Developed modular workflows with prompt-tuned summarization and CSV export, processing 15+ hours weekly with 95% accuracy.
- Documented testing progress and reported defects to application developers for timely resolution.
- Collaborated with QA team members to design and execute test cases, ensuring delivery of high-quality features.

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

- Developed voice synthesis platform with 8 emotion tones, processing audio in under 3 seconds at 92% accuracy.
- Deployed complete on-premise TTS stack supporting real-time voice cloning, eliminating \$200+ monthly API costs.
- Designed systems for high scalability and resilience, supporting real-time processing and multi-user access.
- Hosted frontend on S3 and backend on EC2 using CloudFormation for infrastructure as code, ensuring scalable and reproducible deployments.

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

April 2025

- Designed full-stack Solidity IDE integrating ML-powered vulnerability detection with real-time contract compilation, reducing development cycle time by 60%.
- Applied secure coding practices and implemented authentication/authorization in web and blockchain applications.
- Utilized Java for backend logic and API development in academic and personal projects.

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

September 2023

- Architected blockchain-based contract management platform using smart contracts and predictive ML models to revolutionize athlete-club agreement handling.
- Implemented automated execution with real-time performance analytics, ensuring 100% transparent and tamper-proof agreement processing.
- Developed and simulated secure financial transaction workflows, ensuring transparency and reliability for payment systems.

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

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.
- Delivered a technical workshop on WebRTC and building a video chat application using WebSockets.
- Hosted 8 technical and design sessions, enhancing peer learning and community participation.