

Aradhye Swarup

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PROFESSIONAL SUMMARY

Full-stack developer and AI engineer skilled in delivering production-ready applications and ensuring software quality. Led development of advanced voice cloning systems, blockchain IDEs, and automated content pipelines. Founded nahneed., a creative tech startup with 50+ active users and recognition at university startup finals, demonstrating leadership and QA process expertise.

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  
**QA Tools** : Selenium, PyTest, JUnit, Postman

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.
  - Implemented unit and integration tests to validate functionality and maintain code quality.
  - 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%.
  - Developed custom compiler pipeline achieving sub-500ms contract compilation and deployment across Ethereum testnets.
  - Integrated OAuth authentication and multi-language support, supporting contract deployment across 6 programming environments with seamless blockchain deployment.
- 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.
  - Engineered comprehensive platform combining blockchain technology, machine learning analytics, and secure payment systems for sports industry applications.

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.