

## 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 Eager to take ownership of modules and contribute to high-performance teams in fast-paced, customer-focused environments. Applied object-oriented programming principles and data structures across multiple projects, ensuring scalable and maintainable code. Familiar with multiprocessing and multithreading concepts, with practical exposure in Python and Java. Basic knowledge of computer operating systems, networking, and data management.

### 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.
- Collaborated closely with cross-functional developer teams to understand and optimize workflow processes.

### 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, Spring Boot, Maven, Gradle, FastAPI, Express.js, TailwindCSS  
**ML Tools** : TensorFlow, OpenCV, NumPy, Pandas, Scikit-learn  
**Cloud & DevOps** : AWS, Docker, Kubernetes, Jenkins, Tomcat, Jetty, Github Actions, Git  
**Testing & Infrastructure** : Jest, pytest, AWS CloudFormation, Terraform  
**Databases** : MongoDB, PostgreSQL, MySQL

### PROJECTS

**Burnbox** | *Spring Boot, Apache Kafka, AWS Elastic Beanstalk, DynamoDB, SES, SNS, S3* | [Github](#) September 2025

- Developing disposable email service with Kafka event streaming using Spring Boot & AWS.
- Designing burn-after-read and configurable lifespans ensuring 100% automated data deletion with DynamoDB TTL.
- Integrating AWS SES and S3 to process secure email attachments up to 10 MB.
- Deploying on Elastic Beanstalk to achieve auto-scaling up to 10x load within AWS Free Tier.

**Blurt** | *React.js, Vite, Express.js, Node.js, MongoDB, Passport.js, JWT, Vercel, CI/CD* | [Website](#) | [Github](#) 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** | *MERN, Amazon S3, Python, Scikit-learn, Pandas, Numpy, Solidity* | [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, Flask, PyTorch, Scikit-learn, Plotly, Solidity, Truffle, Web3.js* | [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.
- Integrated data visualization libraries such as Plotly to build interactive analytics dashboards.

### ACHIEVEMENTS

**Pioneira Finalist** | *Advanced to university startup competition finals with nahneed. platform.* March 2025  
**HackBattle Finalist** | *IEEE competition recognition for innovative technical solution with EvoPacts.* September 2023

### 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, Computer Networks, Object-oriented Programming System, Theory of Computation, Discrete Mathematics, and Database Management Systems.

### 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.
- Open to feedback and constructive criticism. Track record of mentoring and being mentored in technical communities.
- Judged ISTE Internal Hackathon 2025 evaluating technical solutions and mentoring participants.