Chandra Sekhar Arasavalli

Narsapur, Andhra Pradesh | +91 8096381549 | chanduarasavalli95@gmail.com | GitHub | LinkedIn | Portfolio

SUMMARY

Software Development Engineer with strong foundations in Data Structures, Algorithms, and scalable system design. Experienced in designing and building cloud-native, distributed web applications using Java, Python, React, Docker, and MongoDB, serving 10,000+ users. Proven ability to take ownership of end-to-end features, deliver high-quality code in fast-paced environments, and optimize performance, reliability, and developer workflows.

EDUCATION

Bachelor of Technology in Computer Science (2022 – 2026)
Swarnandhra College of Engineering & Technology, Narsapur
GPA: 8.57 / 10
Relevant Coursework: Data Structures & Algorithms, Operating Systems, Database Systems, Computer Networks, Machine Learning, Object-Oriented Programming

TECHNICAL SKILLS

Languages: Java, Python, C++, JavaScript (ES6+) | **Databases:** MongoDB, PostgreSQL, MySQL
Core CS: Data Structures & Algorithms, OOP, REST APIs, System Design, Distributed Systems (Basics)
Backend: Flask, FastAPI, Django, Node.js | **Frontend:** React, HTML, CSS, Tailwind
Cloud & DevOps: AWS, Docker, Git, Linux, CI/CD (GitHub Actions)

EXPERIENCE

Full Stack & Platform Operations Intern – IndoNalandaTech (*Jul 2025 – Dec 2025*)

- Took ownership of designing and deploying scalable web portals using React, Flask, and MongoDB, improving user onboarding by 60%.
- Built and maintained CI/CD pipelines using Docker and GitHub Actions, reducing manual deployment effort by 70%.
- Authored API documentation and onboarding guides, improving developer and QA productivity.

2D Game & Web Developer Intern – VJtha Learning Educational (*Feb 2024 – Jan 2025*)

- Designed and implemented scalable online quiz and exam systems serving 10,000+ users across multiple institutions.
- Optimized scoring algorithms and backend APIs to reduce response latency and improve system reliability.
- Collaborated with cross-functional teams to deliver production-ready features under tight deadlines.

PROJECTS

Smart Checkout System (*React, Flask, MongoDB, ESP8266*)

- Designed an IoT-enabled automated billing system with real-time data ingestion and dashboards.
- Reduced average checkout time by ~70% through optimized backend processing.
- Ensured 99.9% data reliability using MongoDB Atlas and validation layers.

Traffic Flow Analysis System (*Python, OpenCV, Pandas*)

- Built a real-time traffic monitoring system to analyze vehicle density and predict congestion.
- Implemented data preprocessing pipelines to improve detection accuracy under noisy conditions.

Swarnandhrian – Student Training Platform (*Flask, Docker, Google Sheets API*)

- Developed a centralized platform for 300+ students with performance tracking and ranking dashboards.
- Built a Docker-based multi-language code execution engine, reducing dependency on third-party tools.

ACHIEVEMENTS & LEADERSHIP

- Vice Chair – IEEE Student Branch; led inter-college technical events and coding competitions.
- Winner: Coding & AI/ML Presentation; Runner-up: Project Expo (same day).
- HackerRank: 5Star Python, 3Star C.
- NCC Cadet (B Certificate, Grade A) & NSS Volunteer

CERTIFICATIONS

- NPTEL: Data Analytics using Python (Silver Medal)
- AICTE: Google AI/ML Internship
- Infosys: Robotic Process Automation (Grade A)
- NPTEL: C Programming (Silver Medal)

INTERESTS

Algorithmic problem solving, system design, chess, emerging technologies