

OBULASETTY NIKHIL SIMHA

Software Engineer Intern | Java & Backend Development | REST APIs | DSA | Testing & Quality
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PROFESSIONAL SUMMARY

Final-year B.Tech CSE (Data Science) student (CGPA 8.61/10) with a strong foundation in Core Java, Object-Oriented Programming, and Data Structures & Algorithms, complemented by hands-on backend development with Flask, REST APIs, and relational databases. Experience building and testing microservice-style backends, writing unit and integration tests, and validating data across SQL/PostgreSQL systems. Comfortable in Agile teams, with practical experience using AI-assisted coding tools (GitHub Copilot, Claude, Cursor) to speed up development and debugging. Seeking a Software Engineer Intern role to apply DSA and OOP fundamentals to production-grade, high-scale systems.

EDUCATION

B.Tech – CSE (Data Science), Jain Deemed-to-be University, Bengaluru

2023 – 2027 (Expected)

CGPA: 8.61/10 | Coursework: Data Science, OOP, DBMS, Software Engineering & SDLC, Machine Learning, Web Development | No Backlogs

INTERNSHIP EXPERIENCE

SRT Intern — Deloitte, Bengaluru

Jun 2026 – Present

- Investigated and resolved production issues through root cause analysis, identifying defect patterns and clearly communicating findings to internal stakeholders and partner teams.
- Developed and unit-tested reusable Python and Excel VBA automation modules for internal enterprise tools, covering data extraction, validation, and end-to-end reporting workflows — applying clean-code and debugging practices.
- Improved operational efficiency and data accuracy by building maintainable automation components and verifying outputs against expected results, in an Agile, stakeholder-driven environment.

Data Visualisation Intern — Infosys Springboard 6.0 (Remote)

Sep 2025 – Dec 2025

- Built ClimateScope, a Streamlit dashboard with 9 interactive modules delivering reporting and visualization across climate datasets for 50+ countries.
- Engineered and tested ETL pipelines for heterogeneous multi-source CSV datasets, applying data validation checks and query optimization to confirm data quality before stakeholder use.

PROJECTS

Smart Ticket Triage – Agentic Backend & REST API System — Python, Flask, React.js, PostgreSQL, REST APIs

- Built and unit/integration-tested a Flask REST API backend with PostgreSQL logging, verifying structured JSON/HTTP workflows and confidence-score-based routing across a 6-stage microservice-style pipeline (Intent Extraction → Classification → Priority Assessment → Confidence Gate → Resolver Mapping → SLA Trigger).
- Designed edge-case test suites benchmarking AI-predicted classifications against manual results, applying DSA and OOP principles to structure the routing and confidence-gate logic.
- Implemented end-to-end ticket management — intake, classification, priority assignment, and resolver-queue routing — with Slack/Email alerting and ServiceNow/Jira-style integration.
- Built the React.js dashboard front-to-back, wiring REST endpoints to live ticket queues and Chart.js visualizations for SLA breach tracking.

AAROGYA AI – Multi-Disease Prediction Platform — Python, Flask, Scikit-learn, Docker, REST API

- Developed a Flask backend exposing REST APIs for a multi-disease prediction platform, applying trained ML models to user symptom data for early health-risk identification.
- Built and tested REST APIs, verifying request/response workflows and reliability after Docker/Render deployment; optimized data handling using historical medical datasets.

TECHNICAL SKILLS

Languages: Java, Python, C, JavaScript, SQL

Core CS: Data Structures & Algorithms, Object-Oriented Programming (OOP), DBMS, Problem Solving

Backend & APIs: RESTful APIs, Flask, Microservices, Backend Development

Databases: MySQL, SQL, Relational Database Management Systems (RDBMS), Query Optimization

Software Engineering: Clean Code, Debugging, Unit Testing, Integration Testing, Agile Development, Technical Documentation

Tools & Platforms: Git, GitHub, Docker, Streamlit, Google Colab

AI & Development: ChatGPT, GitHub Copilot, Claude, Gemini, Cursor, Windsurf, LLMs, Prompt Engineering, AI-Assisted Coding

CERTIFICATIONS & ACHIEVEMENTS

- Top 10 Finalist, Deloitte Hacksplosion 2026 — Multi-Agent AI Ticket Triage System using GenW.AI; selected among top 10 of 21,866 participants nationwide, securing a Deloitte internship as a result.
- 2nd Runner-Up, NOVATHON Hackathon 1.0 (2024) — AAROGYA AI Disease Prediction System (Cash Prize: INR 10,000).
- Infosys Springboard 6.0 — Python for Data Science & Machine Learning; Data Visualization using Python.