Shantanu Awate

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Portfolio: shantanu-00.github.io · GitHub: github.com/Shantanu-00 · LinkedIn: linkedin.com/in/shantanuawate

PROFESSIONAL SUMMARY

Computer Science & Engineering student (2021–2025) specializing in full-stack development and applied AI. Experienced in delivering production-ready systems with Next.js, FastAPI, and Docker, including an AI route-optimization platform that improved travel efficiency by 35%. Strong foundation in algorithms, scalable architectures, and secure coding. Former Cybersecurity Lead at GDSC, with proven ability to lead teams and deliver technical impact. Seeking software/AI engineering roles to build scalable, user-focused products.

TECHNICAL SKILLS

C++, Python, JavaScript, SQL · Next.js, React, Tailwind, Node.js, Express.js, FastAPI · Route Optimization (NN, 2-Opt, GA), Scikit-learn, Pandas, NumPy, OpenCV, YOLOv8 · Docker, Linux, OSRM, OpenStreetMap, Leaflet, Git, GitHub, Postman

SELECTED PROJECTS

PathSense — AI Route Optimization Web App

Next.js frontend · FastAPI backend · OSRM/OSM routing · Docker

- Built end-to-end pipeline: natural-language intent → geocoding → OSRM distance matrix → optimization, reducing route distances by up to 35% vs. naïve ordering.
- Implemented 3 optimization methods (Nearest Neighbor, 2-Opt, Genetic Algorithm) and features: fixed start/end, return-to-origin, interactive route editing.
- Minimized paid API reliance with Dockerized local OSRM server + public fallback endpoints; integrated Leaflet for interactive visualization.
  Live Demo: v0-path-sense.vercel.app | GitHub: github.com/Shantanu-00/PathSense

E-commerce Platform

React, Express.js, Tailwind, MySQL

- Developed Admin & Customer portals with inventory management, shopping cart, secure authentication, and responsive UI.
- Implemented end-to-end order processing and role-based flows.
  GitHub: github.com/Shantanu-00/Ecommerce

EduVisionAI — Personalized Study Enhancer

Python, OpenCV, YOLO, NLP

- Built attention/focus detection pipeline and automated summarization to improve study efficiency; delivered prototype and basic evaluation metrics.
- Collaborated in a 4-member Agile team to deliver the prototype.
  GitHub: github.com/Shantanu-00/Study-Assistant

LEADERSHIP & INITIATIVES

Cybersecurity Lead — Google Developer Student Club (GDSC)

- Led a team of 4; organized workshops for 50+ students on secure coding and ethical hacking; mentored juniors.

EDUCATION

B.E., Computer Science & Engineering — Shrimati Kashibai Navale College of Engineering, Pune

CGPA: 8.61/10 (2021–2025)

Relevant coursework: Data Structures, Algorithms, Databases, AI, Operating Systems

12th (CBSE) — 87.2% · 10th (CBSE) — 96.6%