ROHIT CHANDEL

rohoxoxo@gmail.com | +1-314-201-6471 | https://github.com/Rohoxoxo

Education

Southern Illinois University Edwardsville, IL   **August 2023 – May 2026**

Bachelor of Science in Computer Science

CGPA: 3.5 | Expected Graduation: May 2026

Relevant Coursework: Data Structures, Algorithms, Database Systems, Operating Systems, Software Engineering, Computer Networks

Skills

Programming Languages: C++, Java, Python

Web Development: JavaScript, Node.js, React

Databases: MySQL, SQL, MongoDB

Tools: AWS, Pytorch, Jax, LLMs, Git, GitHub, Docker

Projects

Workout Routine Optimization
- Applied Greedy and Divide & Conquer (0–1 Knapsack DP) algorithms to generate workout routines, achieving up to **15% higher calorie efficiency** than random selection.
- Built a dataset of **50+ exercises** with structured attributes (time, calories, type, intensity, efficiency) to enable algorithmic analysis and testing.
- Evaluated algorithm **performance and scalability** across varied workout durations, constraints, and user profiles.

News Sentiment Analyzer | Python, Web Scraping, NLP, HuggingFace, OOP
- Built a pipeline to scrape financial headlines and classify sentiment (positive/negative/neutral) using **NLP models.**
- Integrated **GPT-2** generation with **BeautifulSoup** scraping into a modular, object-oriented system.
- Dockerized with Docker and tested using **Pytest** ensuring reliability and easy portability.

Low-Light Object Detection for Autonomous Driving (in progress)
- Goal: Improve **nighttime object detection** accuracy for autonomous vehicles under low-visibility conditions.
- Approach: Combine low-light enhancement models (Zero-DCE, LIME, Retinex) with **YOLOv8**, trained on ExDark & BDD100K datasets (100k+ images)**.**

Work Experience

Student Data Assistant

Southern Illinois University Edwardsville (SIUE), East St. Louis, IL   **August 2024 – Present**
- Managed and organized **500+** data records using **Excel/SQL**, improving retrieval efficiency by **30%**.
- Streamlined filing systems and enhanced documentation processes for faster data access.
- Collaborated with the core team to implement improved data storage strategies, ensuring better compliance and accuracy.

Student Program Assistant

SIUE Core Team, Edwardsville, IL   **July – August 2024, 2025**
- Guided and assisted biology lab students in conducting hands-on experiments while ensuring lab safety standards.
- Worked closely with instructors to enhance lab operations, reducing experiment setup time by **15%**.

Office Assistant

Office of International Affairs (OIA), Haryana, India   **August 2021 – May 2023**
- Coordinated 10+ international events, fostering cultural exchange and collaboration between global participants.
- Managed hospitality for **15 international guests** at the **G20 event** in Pinjore Gardens, India, ensuring a seamless experience.
- Led logistical planning for foreign delegations, improving event organization efficiency by **20%**.

Community & Volunteer Involvement

National Service Scheme (NSS), India   **Jan 2021 – May 2023**
- Led and organized a **Blood Donation Camp**, bringing in **100+ donors** and ensuring smooth coordination.
- Promoted teamwork and leadership by collaborating with local organizations for community impact.