

SHAIL PATEL

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SUMMARY

Motivated computer science student with a strong academic background, ready to apply technical skills in a professional setting through an internship. Aims to contribute meaningful solutions and innovative ideas in a team-based environment. Offers a blend of analytical thinking, problem-solving abilities, and a collaborative spirit, aiming to impact projects and organizational goals positively.

EDUCATION

University of Illinois Chicago (UIC)
Bachelors in computer science

Expected Graduation – May 2026

Coursework: Data Structures, Machine Organization, Software Design, Computer Design, Languages and Automata

SKILLS

Language: C++, C, SQL, HTML, Python, Java, JavaScript

Technologies: Linux, MySQL, Git/GitHub, Visual Studio, VS Code, GCC, React

EXPERIENCE

Undergraduate Teaching Assistant – UIC College of Engineering

Jan 2025 – Present

- Assist students with debugging C/C++ code and troubleshooting circuit designs to enhance project outcomes.
- Collaborate with TAs to lead labs, breaking down complex concepts and preparing students for future tasks.
- Conduct hands-on lab sessions to reinforce course material and improve student understanding of key topics.
- Provide technical guidance for semester-long group projects, addressing challenges and ensuring successful project completion.

Building Manager – UIC Campus Recreation

March 2023 – Present

- Achieved rapid career progression, advancing from Member Service Attendant to Manager within 6 months, demonstrating strong leadership and operational acumen.
- Supervise and ensure adherence to schedules for all building personnel, overseeing their duties and performance.
- Optimize building operations to enhance efficiency and tenant satisfaction.
- Manage emergency situations with proficiency in CPR and AED and prepare detailed incident reports as necessary.

PROJECTS

Driving School Management System – College of Polytechnic (Project Lead)

- Spearheaded the development of a digital Driving School Management System for an actual driving school being part of the College of Polytechnic, transforming traditional paperwork processes into an efficient online platform.
- Engineered a comprehensive full-stack solution utilizing SQL for database management, Python for backend logic, and CSS, HTML, and JavaScript for a dynamic and responsive user interface.
- Implemented robust features enabling user profile creation, schedule visualization, and financial transactions for class payments, significantly streamlining administrative operations and enhancing user experience.

CTA Database App (College project)

- Built a console-based Python application to query and analyze Chicago Transit Authority ridership data, improving data accessibility through SQL and Python integration.
- Designed and executed advanced SQL queries across five tables to compute and visualize ridership trends using matplotlib, enhancing data-driven insights.
- Developed an interactive command-line interface for querying stations, ridership patterns, and geographic data, prioritizing user experience and software usability.

IMDB Search Engine (College Project)

- Developed a C++ command-line application to search and display movie and actor/actress data from TSV files, implementing efficient querying and data retrieval.
- Utilized structured data parsing and advanced string manipulation to enable searches by movie title, actor name, and cast details, improving user interaction and accessibility.
- Designed and implemented algorithms to correlate data across multiple files, enabling users to view detailed movie casts and filmographies, demonstrating strong problem-solving and database handling skills.