Deven Patel

Available for Summer Internship from May 2025
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EDUCATION

Bachelor of Sciences in Computer Science
University of Illinois at Chicago | Chicago, IL *August 2022-May 2026*
GPA: 3.65

EXPERIENCE

IT Technician
UIC Technology Solutions, Chicago September 2023 – Present

- Troubleshoot and resolve technical issues for faculty and staff, including printer, network, Mac, and Windows system configurations to maintain seamless operations.
- Implement hardware and software optimizations, conduct system upgrades, and manage backups to enhance efficiency and reliability.

Building Manager
UIC Campus Recreation and Wellbeing, Chicago May 2023 – Present

- Supervise daily facility operations, ensuring safety, policy enforcement, and a well-maintained environment for patrons.
- Train and lead staff to improve team performance, customer service, and operational efficiency.

SKILLS

- **Programming Languages:** Python, C++, C, JavaScript, Java, Golang, F#
- **Web Development & Frameworks:** HTML/CSS, React, Node.js, Django, Flask
- **Database & Data Analysis:** MySQL, MongoDB, PostgreSQL, PowerBI, Pandas, NumPy
- **DevOps & Cloud Technologies:** AWS, Azure, Docker, Kubernetes, Git
- **Additional Skills:** Microsoft 365, TeamDynamix, REST APIs, Postman API

PROJECTS

Multi-Threaded Elevator Simulation System (C):

- Developed a multi-threaded elevator control system using POSIX threads, mutexes, and condition variables to synchronize passenger movement, optimize scheduling, and ensure robust system performance.
- Designed and implemented a scalable, thread-safe queueing system to efficiently manage passenger requests, reducing unnecessary elevator travel and improving reliability in multi-unit simulations.

AgriMitra (Python):

- Developed a web application, an AI-powered waste management platform using Flask, React, OpenAI, and weather APIs to provide real-time disposal guidance, alerts, and community support. Improved sustainability by reducing unmanaged agricultural waste and pollution.
- Built a scalable backend with MongoDB and Flask to manage user data, waste insights, and real-time API integrations. Enhanced system efficiency, AI accuracy, and chatbot interactions for farmers.

Aahar (MERN Stack):

- Developed Aahar, a web application designed to overcome food scarcity and reduce food wastage by connecting individuals with excess food to those in need.
- Engineered a scalable backend using MongoDB, Express, React, and Node.js (MERN), enabling seamless user interactions, real-time food sharing, and efficient donation management.

Campus Map Navigation Program (C++):

- Designed a console-based application to navigate campus maps, enabling users to find optimal paths between two buildings via footways. Implemented graph data structures to represent the campus map, including nodes (vertices) and footways (edges).
- Integrated Dijkstra's algorithm to find the shortest weighted path between two specified buildings and enhanced user experience by calculating the center point of two buildings and determining the closest meeting building.

ACHIEVEMENTS

- College of Engineering Dean's List – 5 Consecutive Semesters
- SparkHacks 2025 Winner