

Kazmain Shah

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EDUCATION

University of Illinois Urbana-Champaign

Bachelor of Science in Computer Science + Economics

Champaign, IL

Expected May 2025

- GPA: 3.77; Junior
- Activities and societies: Association for Computing Machinery (ACM), Pakistani Student Association (PSA)
- Achievements: Dean's List Fall 2022
- Relevant Coursework: Data Structures, Algorithms, Computer Systems, Web Programming, Economic Statistics II

EXPERIENCE

Medline Industries

Software Developer Intern

June 2023 – August 2023

Northfield, Illinois

- Developed a dynamic web portal using Java and JSP, and provided comprehensive documentation for the codebase to ensure ease of maintenance within the development team.
- Implemented a Messaging Tool using SOAP and HTTP enabling seamless XML message exchange and automated request URL generation based on user preferences.
- Applied advanced XML parsing and manipulation techniques to extract, modify, and format data fields within SOAP messages, significantly improving error analysis and resolution efficiency.
- Designed and implemented a robust backend connection to a SQL database in collaboration with cross-functional teams. This enhancement enabled streamlined data retrieval and manipulation for all page contents.

University of Illinois - ATLAS Program

Website Developer Intern

August 2023 – May 2024

Champaign, Illinois

- Created and managed websites using Java catering to a daily user base of over 10k, aligning with client requirements.
- Conducted analysis on user statistics using Python to identify deficiencies in UI and website user experience.
- Frequently presented and discussed optimization strategies for content viewership and website implementation with several different client teams.

Career Advancement Exchange

Website Developer Intern

March 2023 – August 2023

Champaign, Illinois

- Led and managed a team in the development of websites using React from initial concept to final implementation, ensuring adherence to project timelines and deliverables.
- Collaborated closely with clients to understand their unique requirements, translating them into effective website designs and functionalities.

PROJECTS

OpenFlights Data Analysis *C++*

- Leveraged OpenFlights Data set for comprehensive data analysis, utilizing CMake software for accurate testing and compilation of C++ code.
- Implemented advanced algorithms (Breadth First Search, PageRank, Dijkstra's) in C++ to extract key metrics from the dataset, enhancing data-driven decision-making.

Mosaic Generator *Python Flask*

- Developed a seamless fusion of custom C code modules within a Python Flask microservice architecture, enhancing mosaic generation algorithms for efficient cross-language execution and elevated performance.
- Created a single mosaic reducer responsible for selecting the best possible tiles from two mosaics, resulting in the generation of a single mosaic from over 2000 individual mosaics.

SKILLS

- Programming Languages - C/C++, Java, Python, JavaScript, HTML, CSS
- Technologies - Git, Docker, Node.JS, SQL, Firebase, Vercel
- Frameworks/Libraries - React, Flutter, Flask, Pandas, Numpy
- Interests - Full Stack Development, Software Development, Cloud Developer, Data Scientist, Data Analyst
- Skills - Latex, Presenting, Documentation, Clean Coder
- Spoken Languages - English, Sindhi, Spanish