Faaizuddin Farooqui

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EDUCATION

University of Illinois – Chicago — Expected Graduation: May 2025
Bachelor of Science in Computer Science, Minor in Mathematics, Dean's List — *GPA: 4.0/4.0*

EXPERIENCE

Software Engineering Intern — June 2023 - August 2023
Electronic Visualization Laboratory (EVL) — *Full-time*

- Developed collaborative web solutions using Typescript and React, driving a 40% surge in user engagement and elevating data visualization experiences on SAGE3, fostering swift insights and decisions for researchers
- Contributed end-to-end systems in Nodejs, optimizing data processing and retrieval, resulting in faster loading times for large visualizations and improving overall platform responsiveness
- Implemented Python-driven AI/ML models for robust dataset analyses, facilitating a 15% boost in accuracy during data exploration and collaboration sessions, enabling more informed decision-making among research teams

Undergraduate Teaching Assistant — January 2023 – Present
University of Illinois Chicago — *Part-time*

- Headed lab sessions for over 30 students providing clear guidance and enhancing understanding
- Collaborated on strategic teaching approach with peers and professors, simplifying topics for improved learning
- Boosted confidence by 30% through targeted review sessions and personalized Office Hours support

PROJECTS

Chat App | *React, TypeScript, Vite, Chakra*

- Designed a pseudo replica of Chat GPT using React, Typescript, and Chakra to allow users to have conversations with the university's EVL language learning model API
- Created a dynamic chat box interface using custom components emulating natural language conversations for users to engage with

Movie Search App | *React, TypeScript, Vite, Express*

- Developed a web application using React and Typescript that allows users to search for movies, view trending movies, and showcased movie details including release data and descriptions
- Designed RESTful back-end server to handle API calls from the client by fetching data from The Movie Database

Open Street Maps - Dijkstra's Algorithm | *C++*

- Developed an algorithm that inputs a map of UIC's campus from OpenStreetMap API and navigates two people at two different buildings to a meeting spot
- Information containing building locations, footways between buildings, as well as the Dijkstra's graph search algorithm, were all used to assist the development of this program

Sparkhacks: Blaze Alert | *HTML/CSS, Javascript*

- Collaborated with a team of four to develop a personalized, campus-specific weather monitoring web application for students that also notifies them
- Designed and modernized front-end application to display data retrieved from OpenWeatherMap API

BST Priority Queue | *C++*

- Engineered a versatile binary search tree-based priority queue for efficient element look-up times based on priority, with applications such as hospital patient queues

TECHNICAL SKILLS

Languages: (proficient) Python, Java, C/C++, (familiar) HTML/CSS, Typescript
Developer Tools: Vite, GIT, VS Code, IntelliJ
Frameworks and Libraries: Node.js, Express, React, Chakra

RELEVANT COURSEWORK

Data Structures, Computer Algorithms, Software Design, Computer Design, Machine Organization, Theory of Computation, Discrete Mathematics, Linear Algebra