Faaizuddin Farooqui

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EDUCATION

BS Computer Science, Minor Mathematics. GPA: 4.0 Expected Graduation: Dec 2025
University of Illinois *Chicago, IL*

Courses: Data Structures & Algorithms, Software Design, Programming Language Design, Systems Programming

SKILLS

Programming: Java, JavaScript/TypeScript, Python, C#, C++, R
Web & Database: HTML, CSS, PostgreSQL, pgAdmin4
Frameworks: Tailwind, ASP.NET Core MVC, Entity Framework, ReactJS, Flutter, Next.js, Express
Tech: Git, JUnit, GoogleTest, Postman, Unix, VSCode, Intelij, Eclipse, LaTeX

EXPERIENCE

Undergraduate Research Intern January 24 – Present
Electronic Visualization Laboratory *Chicago, IL*

Computer Science Teaching Assistant January 23 – December 23
University of Illinois *Chicago, IL*

- Prepared and conducted weekly tutorials for over **40** students in the courses **Mathematical Foundations of Computing** and **Programming for Engineers**
- Learned to explain technical and logical concepts, significantly boosting student confidence and comprehension and receiving a 97% rating

Software Engineering Intern January 23 – August 23
Electronic Visualization Laboratory *Chicago, IL*

- Developed collaborative web solutions using Typescript and React, driving a **43%** surge in user engagement and elevating data visualization experiences on SAGE3
- Contributed end to end systems in Nodejs, optimizing **data processing** and retrieval, resulting in faster loading times for large visualizations and platform responsiveness

PROJECTS

CLI Commands REST API (Back-End) | *ASP.NET Core, MVC, C#, PostgreSQL, RESTful APIs* Jan 24
Personal Project — (GitHub)

- Built a **REST API** which stores command line commands with their descriptions
- Utilized **Entity Framework Core ORM** (DBContext), Migrations, DTOs & PostgreSQL for data access
- Used the repository & dependency injection **design patterns** to encapsulate data access
- Conducted thorough testing of **CRUD** operations across API endpoints using OpenAPI and Postman

Movie Search API (Front-End) | *ReactJS, Hooks, CSS, Typescript, Vite, Express, Node* Jul 23
Personal Project — (GitHub)

- Developed a modern website that can search for thousands of movies and display the top 10 trending movies using the The Movie Database (TMDB) API
- Utilized Express **middleware** functions for application request-response cycle and **routing** for client requests
- Used **Hooks(useState & useEffect)** and **async/await** functions for fetching data display and interaction

Word Challenge Multi-Threaded Server/Client Game | *Java, JavaFX, ServerSocket* Nov 23
Coursework Project — (Github)

- Built a game where users try to guess a word within 6 attempts in atleast once in 3 categories (Final Grade: 100%)
- Utilized Java **ServerSocket** to read and write **serializable** game information between server and client
- Implemented **composite** design pattern for client GUI and tested game logic using JUnit