BRIJ PATEL

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PROFILE

Computer Science professional with experience in using Python, R, Java, C++, C, C#, Haskell, PHP, SQL, JavaScript, HTML, and CSS. Experienced in program management using SDLC (Software Development Life Cycle), Trello

EDUCATION

KNOX COLLEGE **Galesburg, IL**
Bachelor of Science, Major in Computer Science **2024-2025**

GUJARAT TECHNOLOGICAL UNIVERSITY **Gandhinagar, GJ, India**
Diploma Engineering, Major in Computer Science **2020-2023**

PROFESSIONAL EXPERIENCE

KNOX COLLEGE **Galesburg, IL**

Information Technology Services (ITS) Lab Assistant **09/2024 - Present**

- Assisted students and faculty with lab inquiries, basic tech troubleshooting, and maintaining a professional, productive lab environment.
- Managed lab upkeep by refilling supplies, reporting issues, and using software like Google Apps, Microsoft Office, and Adobe Creative Suite for scheduling and communication.

Makerspace Student Monitor **09/2024 - Present**

- Operated and maintained 3D printers, efficiently managing the print queue and minimizing downtime to support student projects.
- Guided students in 3D modeling and printing, overseeing tool loans and materials to enhance their hands-on learning experience.

Computer Science Teaching Assistant **02/2024 - 06/2024**

- Provides weekly student support in computer science and facilitates lab sessions and assignments
- Collaborates with professors on course materials and maintains up-to-date knowledge in the field

Research Intern **06/2024 - Present**

- Conducted an independent research project on stochastic CRNs(Chemical Reaction Networks), creating a benchmark framework and developing best practices for modeling and testing
- Utilized software engineering expertise to validate CRN behaviors, enhancing understanding of complex systems in synthetic biology and chemical engineering

PROJECTS

CRN WEBSITE

- Designed and integrated a graphical interface to enhance user experience and monitored multiple CRN files simultaneously, providing intuitive visual insights into complex networks
- Implemented advanced parsing algorithms to efficiently process and extract relevant data from uploaded CRN files, ensuring accurate and quick analysis

INTERACTIVE WEATHER WEBSITE

- Enhanced user engagement through strategic use of visual puns, comic strips, and interactive dialogues, resulting in increased time spent on site and higher user satisfaction
- Leveraged contemporary web development technologies and frameworks (including HTML5, CSS3, and JavaScript) to implement and enhance interactive features with a comic aesthetic

SITE STAT

- Developed and launched a web application enabling users to monitor website uptime and receive real-time notifications via email when a registered website goes down or comes back online
- Utilized technologies such as [mention any specific technologies used, e.g., Python, JavaScript, REST APIs, etc.] to ensure robust performance and scalability, supporting a growing number of users and monitored websites