

SAYAF KASHEM

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EDUCATION

University at Buffalo, The State University of New York August 2021 – Expected 2025
Bachelor of Science (B.S.) in Computer Science
Relevant Coursework: Runtime Complexity, Data Structures & Algorithms, Dynamic Programming Object-Oriented Design, Full-Stack Web Development, AI/ML, Discrete mathematics, Statistics, Distributed Systems, STEM Communication

PROJECT EXPERIENCE

Instagram-like Web App September 2024 – January 2025

JavaScript, React, Firebase, CSS, TensorFlow

- Engineered a secure authentication flow with Google Auth and optimized Firebase queries, reducing latency by 40%
- Implemented TensorFlow COCO-SSD to auto-filter cat images with 95% accuracy, enhancing content quality
- Orchestrated CI/CD pipelines with GitHub Actions and comprehensive testing to ensure upload stability and AI reliability

A 2D Maze & Dice-Roll Game

March 2024 – May 2024

Python, Pygame

- Architected 4 key gameplay features: player movement and audio, varying levels, and enemy AI, while focusing on visuals and graphics
- Enhanced and facilitated team collaboration using Trello and Git, improving project efficiency by 25% and ensuring on - time delivery
- Reduced bug reports by 30% through rigorous testing and iterative development, as validated by project manager feedback

Weather Web App

May 2022 – May 2022

JavaScript, React, HTML/CSS, OpenWeatherAPI

- Developed a real-time weather dashboard capable of handling API requests with robust error handling
- Crafted a responsive and accessible UI using CSS and Font Awesome, improving cross-device usability
- Automated deployment workflows with GitHub Actions for CI/CD, streamlining updates and maintaining code integrity

To-Do List Web App

May 2022 – May 2022

JavaScript, React, HTML/CSS, Local Storage, GitHub

- Built an interactive task management app enabling users to add, complete, and delete tasks in real time
- Implemented persistent state using browser local storage to maintain tasks across sessions
- Employed GitHub for version control and CI/CD workflows, ensuring consistent deployment and code quality

LEADERSHIP EXPERIENCE

Scribe & Diversity Committee Co-Head September 2024 – December 2024

Theta Tau Fraternity, University at Buffalo, NY

- Enhanced communication for 60+ members, improving internal processes and event coordination, boosting efficiency by 30%
- Organized 5+ diversity initiatives, attracting 120+ attendees per event, increasing engagement by 40% through collaborative efforts
- Built partnerships with 5+ professional organizations, enhancing career opportunities and collaboration by 25%

Project Lead, Automated Catapult

March 2024 – May 2024

Theta Tau Fraternity, University at Buffalo, NY

- Directed a team of 19 in within the organization to complete design, fabrication, and automation of a functional catapult system
- Created the coding aspect of the project, programming Arduino to achieve a consistent launch accuracy improvement of 15%
- Delivered a fully operational catapult on schedule, managing resources and communication within engineering initiatives

SKILLS

Programming Languages: Python | JavaScript | TypeScript | C | C++ | OCaml | Scala | HTML/CSS | SQL

Backend: React | Flask | Firebase | MongoDB | Node.js | Pytorch | TensorFlow | REST APIs | JSON | PostgreSQL

Development Practices: Proficient in API Integration | Git | Testing Strategies | Unix | Docker

Domain Knowledge: Computational Complexity | Distributed Systems | Object-Oriented Programming | DB Management | Microservices

Languages: English, Bengali, Hindi