

Muhtasim Mushfiq

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EDUCATION

University at Buffalo, The State University of New York
Bachelor of Science in Computer Science

Buffalo, NY
May 2024

SKILLS & CERTIFICATIONS

Languages: Python, C, C++, JavaScript, Java, Scala, HTML/CSS, Swift, MIPS, ARM Assembly, Bash

Technologies/Frameworks: ReactJS, React Native, Git, Docker, Flask, Angular, Jira, Next.JS, Material UI

Certifications: [CodePath](#) Certificate in Intermediate Software Engineering, [CodePath](#) Certificate in iOS Development

EXPERIENCE

CytoCybernetics | *Software Engineer Intern* | Buffalo, NY June 2023 - August 2023

- Enhanced Cybercyte software with **C**, **C++**, and **GTK API**, rectifying functional issues, introducing user-friendly features, and heightening reliability and usability for electrophysiology research capabilities
- Refactored Cybercyte codebase to improve code efficiency, eliminate redundancy, and bolster maintainability, leading to significant performance gains
- Expanded the Turbo Mode feature of Cybercyte by integrating new ion channel models based on Hodgkin-Huxley and Markov Model mathematical models, enabling **50%** faster results for specific ion channels

GymRat LLC | *Software Engineer Intern* | Remote September 2022 - June 2023

- Integrated user-centric features and bug fixes at GymRat+ employing **React Native** and **Express.js**, boosting usability and app experience for fitness enthusiasts
- Conducted usability testing, iteratively modifying app based on user feedback, resulting in a **65%** decrease in errors and **95%** increase in satisfaction
- Engaged in daily stand-up meetings and pair programming sessions to develop robust software

PROJECTS

MyLyfe | *Software Developer* | (Team of 5)

- Collaborated with a team and a project manager to create a social media platform and a self-help application using **ReactJS** for frontend interactivity and Swagger **RESTfulAPI** library for backend support
- Implemented a dynamic point-based system for user engagement, including profile editing, user interaction features, and goal completion
- Presented project at university competition, securing **4th** place out of 30 teams, highlighting design innovation and impact

Full-Stack Web App | *Software Developer*

- Developed full-stack web app, focusing on **TCP** server-side functionality using HTTP, APIs, AJAX, and web sockets
- Secured user data with robust measures, including encryption, authentication, and privacy protocols
- Streamlined **MongoDB CRUD** operations, enhancing data handling within **Docker** containers for efficient deployment and scalability

LEADERSHIP EXPERIENCE

Theta Tau Engineering Fraternity | *Chair of Professional Development*

February 2023 - May 2024

- Scheduled tours by connecting with industry professionals on LinkedIn, enhancing networking opportunities
- Conducted resume and LinkedIn workshops to improve members' job application and networking skills.
- Developed a program that won **1st** place for Best Professional Development Program, demonstrating effective leadership and member success.

University at Buffalo | *Project Manager Intern* | Buffalo, NY

August 2023 - December 2023

- Managed development of an educational application for students and professors, coordinating task assignments and progress tracking via **Trello**, utilizing **Figma** to provide clients with visual representation of the final product
- Executed **Agile** methodology to optimize team efficiency, overseeing sprints and task assignments based on individual strengths
- Directed integration of key features, including course creation, assignment submission, attendance tracking