Muhtasim Mushfiq

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EDUCATION

University at Buffalo, The State University of New York — Buffalo, NY
Bachelor of Science in Computer Science — May 2024
Theta Tau Engineering Fraternity: Chair of Professional Development

SKILLS & CERTIFICATIONS

Languages: Python, C, C++, JavaScript, Java, Scala, HTML/CSS, Swift, ARM Assembly, Bash
Technologies/Frameworks: React, React Native, Next.js, Git, Docker, Flask, Jira, Firebase, MongoDB, PostgreSQL
Certifications: CodePath Certificate in Software Engineering, CodePath Certificate in iOS Development

EXPERIENCE

Headstarter | *Software Engineer Fellow* | New York, NY — July 2024 - September 2024
- Developed and deployed 3 AI-driven projects in 10 weeks with ReactJS and Next.js, leveraging CI/CD and agile sprints for rapid iteration
- Built an AI-powered **SaaS** flashcard generator with **OpenAI** API and Stripe API integration, creating a scalable, revenue-ready product

CytoCybernetics | *Software Engineer Intern* | Buffalo, NY — June 2023 - August 2023
- Enhanced Cybercyte software using C, C++, and GTK API**,** fixing functionality issues, adding user-friendly features, and improving reliability for electrophysiology research
- Refactored **30%** of the Cybercyte codebase to boost efficiency, eliminate redundancy, and improve maintainability, leading to notable performance gains
- Expanded the Turbo Mode feature**,** integrating new ion channel models with Hodgkin-Huxley and Markov algorithms, achieving **25%** faster results for specific channels

GymRat LLC | *Software Engineer Intern* | Remote — January 2023 - May 2023
- Enhanced usability and app experience at GymRat+ by integrating user-centric features and resolving bugs with React Native, Express.js, and PostgreSQL
- Conducted usability testing, iteratively modifying app based on user feedback, resulting in a **60%** decrease in errors and **70%** increase in satisfaction
- Improved code quality and team productivity through daily stand-ups and pair programming sessions

PROJECTS

MyLyfe | *Software Engineer* | (Team of 5)
- Collaborated with a team of 5 to create a social media platform and self-help app using React and Swagger RESTful API, enhancing user experience and functionality
- Implemented a point-based system for user engagement, including profile editing, user interaction features, and goal completion
- Presented project at university hackathon, securing **Top 5** out of **50+** teams, highlighting design innovation and impact

Full-Stack Web App | *Software Engineer*
- Developed full-stack web app using Python, 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 within Docker containers, employing Test-Driven Development and Postman for robust endpoint validation

LEADERSHIP EXPERIENCE

University at Buffalo | *Project Manager Intern* | Buffalo, NY — August 2023 - December 2023
- Managed development of an educational app, coordinating tasks in **Jira** and using **Agile methodology** to optimize team efficiency by **40%**, with Figma prototypes for **100%** client alignment