

MUJTABA REHMAN

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Technical Skills

Languages: JavaScript, TypeScript, Python, C++, C#, Java, PHP

Frameworks: Next.js, React, Preact, Node.js, Express.js, Tailwind CSS, Sass, Spring Boot, .NET (WPF), Drupal

Tools: AWS (EC2, S3, RDS), Vercel, Vite, Selenium, Playwright, Jest, Docker, Jira, Figma, SQL, noSQL

Work Experience

Flodraulic

January 2024 – April 2024

Software Engineering Intern

Georgetown, ON

- Developed a WPF .NET application ☞ to be deployed across **150+ devices** for mission-critical real-time torque logging, machine condition monitoring, predictive maintenance, and cloud-based data access
- Implemented a flag-ship feature, by using the iText library to create detailed PDF torque logging reports with intricate generated charts, processing over **200** database entries for each document
- Collaborated in a small development team to develop and iterate over feedback in a demanding weekly release schedule
- Architected a company-wide **QC system** ☞ using Next.js, React and TypeScript, enabling engineers to create product checklists in a dynamic UI, then have the QC team generate PDF reports for record keeping and customer satisfaction
- Integrated role-based authentication, database indexing, and email password resets by utilizing Node.js, NextAuth, and SQLite to ensure data integrity and seamless user experience

Guelph Public Health

May 2023 – August 2023

Software Engineering Intern

Guelph, ON

- Optimized performance, accessibility, and UX across company's customer-facing web application including revamping user interfaces, streamlining form processing, and enhancing database interactions using PHP, JavaScript, and MySQL
- Collaborated on integrating third-party AI chatbots into the corporate website to enhance customer interactions; anticipated to decrease nurse telecommunication times by up to **20%**
- Migrated storage to AWS S3 for file storing and AWS MySQL for relational database services

University of Waterloo

May 2022 – August 2022

Coding Instructor

Waterloo, ON

- Collaborated to secure over **\$100,000** in funding by presenting a showcase demonstrating leading tech education products and software in front of the Ontario Minister of Education
- Developed and delivered a comprehensive coding curriculum for high school students, encompassing concepts such as functional/object-oriented programming, embedded programming, as well as basic web development

Personal Projects

Youtify ☞ | *Next.js, React, JavaScript, Node.js, Tailwind, OAuth 2.0, REST APIs*

- Developed a web application that effortlessly transfers playlists between YouTube Music and Spotify, also allowing users to "clean" playlists by creating new playlists with non-explicit versions of the original songs
- This service performs ETL over both YouTube Data API & Spotify Web API and utilizes OAuth 2.0 along with HTTPS-only cookies for secure authentication
- Implemented robust error handling, real-time progress bars using server-sent events and accessible mobile-friendly design

Personal Website ☞ | *React, Gatsby, Tailwind, GitHub Actions*

- Developed a portfolio website using Gatsby on top of React, deployed on a custom domain with GitHub Actions

Chess Engine | *C++, OOP, GNU Debugger, Valgrind MemCheck, UML*

- Collaborated in a three-person team to develop a graphical chess engine using C++, implementing the complete chess rule set and offering four difficulty levels for the AI opponent, all visualized through an X11 graphical interface

Autonomous Quadcopter Flight | *Python, Computer Vision, Raspberry Pi, Electronics*

- Designed and assembled a quadcopter by soldering various components to a PCB.
- Developed custom flight missions and tricks using the DroneKit Python API loaded onto a Raspberry Pi.

Education

University of Waterloo

August 2021 – April 2026 (expected)

Honours Computer Science Co-op

Waterloo, ON

Coursework: OOP, Algorithms, Data Structures, Web Development, UI, Operating Systems, Compilers