MUHAMMAD ALI

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TECHNICAL SKILLS

Languages: JavaScript, TypeScript, Python, HTML5/CSS3, C, C++, Java, SQL

Frameworks and Libraries: React, Node.js, Express.js, GraphQL, Gatsby.js, Redux, Tailwind CSS

Tools: Git/GitHub. Linux

EDUCATION

UNIVERSITY OF WATERLOO

September 2022 — April 2027

- Program: Software Engineering Honours (First Year)
- Current GPA: 89.54% or 3.9
- Graduated high school with accumulative average of 100% (full AP course load)

RELEVANT WORK EXPERIENCE

SOFTWARE DEVELOPER

Coova | June 2022 - December 2022

- Prototyped full-stack application (with REST API) using agile processes to create platform for therapists and people with mental disorders using React, Redux, Express.js, and Tailwind CSS
- Refactored frontend and redesigned MongoDB schemas to reduce database size by 25%
- Implemented ongoing JSON Web Token user authentication to reduce login time by 50% and improve security
- Translated Figma UX wireframes into React components to integrate Google Calendar API to mark appointments on user Google calendars

RELEVANT PROJECTS

STOKEN

- Developed React application with Express.js backend in TypeScript to digitalize certifications (i.e. First Aid, CPR, WHMIS) as Web3 Tokens
- Programmed smart contract in Solidity and deployed it on Gnosis (EVM) Blockchain using RedHat.js
- Used Ethers.js to let users use their own digital wallet to create tokens

METROPOLITAN SIMPLIREAD

- Chrome Extension that uses Beautiful Soup, Flask, and NLP libraries to parse and summarize web articles
- Leveraged MongoDB so users can save article summaries for later use on any device with their Google account
- Designed and built extension popup interface using JavaScript, HTML5, and CSS3

SIMPLIPAY

- Advanced payroll software developed using C# (WinForms) that uses Excel Interop to manage employee
 database and parse Canadian tax tables. Can calculate accurate CPP, EI, and Federal and Provincial Tax deductions
 based on wage/salary
- Allows user to generate digital pay stubs in the form of an Excel file for each employee for a given pay cycle

FOODCODE - STSHACKS (2021)

- Python full-stack (Django) application that scans barcodes (OpenCV) to get harmful ingredients within products
- Developed algorithm to correctly parse and filter JSON data returned by Barcode Lookup API
- Used AJAX and jQuery to dynamically update frontend

GIGHUNTER - HACK THE 6IX (2021)

- Used Firebase and Vanilla JavaScript to prototype full-stack application to connect musicians with local venues
- Developed **UI/UX** elements to integrate **Google Maps API** to visually search for and show venue locations

ACHIEVEMENTS AND AWARDS

- Most Innovative Project (STSHacks): FoodCode (2021)
- Recipient of \$80,000 Schulich Leader Scholarship from University of Toronto for Computer Science (2022)
- Recipient of Bronze Academic Governor General Award (2022)
- Recipient of President's Scholarship of Distinction from University of Waterloo (2022)
- Multiple Awards and qualified for internationals in business case competition (DECA) (2019-2021)
- 1st Place Stock Transaction Competition