

# Abdul Raheem Khan

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## TECHNICAL SKILLS

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**Languages:** C/C++ | Python | JavaScript | HTML | CSS | C# | SQL | MATLAB

**Software/Tools:** React | TypeScript | Node.js | Express.js | MongoDB | .NET | Docker | AWS | Unity

**Hardware:** Oscilloscope | Signal Generator | Multimeter | Soldering | Microcontrollers | Electronic Circuits

## TECHNICAL WORK EXPERIENCE

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### Full Stack Software Developer Co-op ~ Design IT

May – December 2022

Remote

- Developed and created modules consisting of user interfaces and API endpoints using React TypeScript, .NET, and SQL, improving client productivity by ~40%
- Fixed bugs, added enhancements, and refactored code in both front-end and back-end components to ensure optimal performance and functionality
- Collaborated in a team environment using Agile methodology and attended daily stand-up and demo meetings

### Software QA Engineer Co-op ~ Change Healthcare

January – August 2020

Richmond, BC/Remote

- Packaged Program Temporary Fixes (PTF) manually and through automated tools to rectify issues
- Conducted front-end and back-end testing to reproduce and fix issues reported by clients
- Investigated product issues with team members to find solutions
- Mentored and directed new interns on PTF packaging and testing to ensure seamless workflow

## TECHNICAL PROJECTS

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### CashGrab Web Application ~ MongoDB, Express.js, Node.js, React, TypeScript, Socket.IO

March – July 2023

- Developed and deployed a user-friendly web application for a computer-vision-based cash POS system tailored to meet the needs of retail businesses
- Implemented user registration, login functionalities, and provided access to transaction history, income management, and financial statistics
- Established a robust bi-directional communication channel using Socket.IO between the web application and the Raspberry Pi-controlled device for fast and secure transaction execution

### COVID-19 Stat Tracker Web Application ~ HTML, CSS, JavaScript

December 2021- January 2022

- Created a web application that uses the opencovid API to return the number of cases, recoveries, and deaths
- Returned data is based on user provided date and location (Province or Health region code)
- Stats are displayed in cumulative and daily amounts

### RegEx grep Enhancement ~ C++, Parabix

September - December 2021

- Collaborated in a group to design an enhancement to grep command using the Parabix framework
- Extracted data from a regular expression that matches the format provided by an input file
- Supported features include outputting the result to a file, extracting data that meet certain conditions, and enumerating the number of unique values

## EDUCATION

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### Simon Fraser University

September 2018 – Present

Bachelor of Applied Science in Computer Engineering (Dean's Honour Roll)