

Abdul Raheem Khan

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TECHNICAL SKILLS

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

Frameworks/Libraries: React | TypeScript | Node.js | Express.js | .NET Core | ASP MVC | Angular

Technologies/Tools: MongoDB | Git | Linux | Windows | Unity | AWS | Docker | Terraform | Jenkins

TECHNICAL WORK EXPERIENCE

Software Engineer Co-op ~ Voronoi Health Analytics

September – December 2023

Remote

- Developed a PET scan viewer that interfaces with a deep neural network for 3D image processing to facilitate radiologists' workflow by enabling organ cross-sectional analysis.
- Created UI and functional enhancements using C++, Qt Framework, Python, and JavaScript

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

TECHNICAL PROJECTS

Hand Gesture Shortcut ~ Python, OpenCV, MediaPipe, Tensorflow, Keras

July - August 2023

- Developed an advanced real-time gesture recognition system driven by neural networks, enabling hands-free computer control to open various computer applications
- Implemented precise hand tracking with the MediaPipe library for accurate hand gesture interpretation, enhancing user interaction.

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

March – July 2023

- Developed and deployed a full stack 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

EDUCATION

Simon Fraser University

September 2018 – Present

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