Charles W. Wong

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TECHNICAL SKILLS

Languages: JavaScript, Typescript, HTML/CSS/SCSS. C/C#/C++, Java, Python
Frameworks: React, jQuery, Velocity, Qt, Bootstrap, Foundation
Design/Tools/Libraries: Git, Adobe Creative Cloud, Azure DevOps, Microsoft Dynamics, Figma, Cascade CMS

EXPERIENCE

Web Developer
Jan – Apr 2024

AGF | JavaScript, React, JQuery, Java, HTML/SCSS
Toronto, ON

- Developed and maintained AGF website components leveraging React, JQuery, and Velocity/Java tech stack, serving over 800,000+ clients
- Implemented user homepage login functionality
- Designed responsive, interactive table handling client data utilizing React
- Managed and maintained sitewide cookies with Salesforce Pardot and Google Tag Manager

Developer
Sept – Dec 2022

National Research Council | JavaScript, C++, Microsoft Dynamics
Ottawa, ON

- Developed CRM solutions for Industrial Research Assistance Program Portal, CanExport, and SONAR360 programs, reaching 8,000+ SMEs across Canada
- Implemented and modeled client-requested features
- Spearheaded QA testing and data-generation processes alongside comprehensive documentation

Software QA / Developer
Jan – Apr 2022

Monogram Creative Console | JavaScript, Typescript, Lua, QML/Qt, Adobe CC
Kitchener, ON

- Evaluated company software integrations with new releases of industry-leading editing software
- Identified 50+ software bugs with Adobe Creative Cloud integrations and new feature implementations, planned and executed software solutions
- Designed and implemented UI for utility and user customization of Orbiter Module
- Improved test execution times by over 5% through test case refactoring

PROJECTS

Equalizer Audio Plugin | *C++, JUCE, XCode*

- Created peak adjustment, high-pass and low-pass filters with user customization of quality, slope, and target frequency
- Implemented frequency response curve visualizer
- Designed DSP functionality as both standalone and VST plugin for DAWs (GarageBand, FL Studio)

Secret Radio Safe | *C, Git, STM32*

- Prototyped microcontroller combination safe with discreet storage compartment
- Designed custom housing and locking mechanism
- Implemented combinational safe password logic, 14-segment display functionality

EDUCATION

University of Waterloo
Sept. 2021 – Present

Bachelor of Engineering Candidate, Computer Engineering

- Colonel Hugh Heasley Engineering Scholarship
- President's Scholarship of Distinction