

Brian Fong

Software Engineer

Advocate for technology to help better, improve, and protect people's lives

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WORK EXPERIENCE

Software Engineer – Azure Core Security Services Microsoft

03/2020 – Present

Redmond, WA, USA

Achievements/Tasks

- Wrote maintainable and secure C++ code for authentication used in an SGX enclave for attestation of Trusted VMs
- Pioneered the enclave validation workflow system to automate git, run build tools, clear and deploy enclave images and run tests
- Built the testing framework for the Trusted VMs by automating and implementing end-to-end tests with PowerShell runbooks

Software Engineer Intern - Azure Red Team Microsoft

05/2019 – 08/2019

Redmond, WA, USA

Achievements/Tasks

- Mentored a team of interns by organizing workshops to help onboard them to the tech stacks used as well as providing guidance
- Developed a mixed-reality Unity cross-platform application for viewing Azure Active Directory graphs in 3D
- Integrated a chat-bot in Azure to allow voice commands for accessibility

Software Engineer (Contract) - Garage Microsoft

09/2018 – 12/2018

Vancouver, BC, CAN

Achievements/Tasks

- Maintained a mixed reality C#/Unity application used for visualizing tumors and cancer cells
- Worked with the MRTK and PUN to create a P2P app that renders holograms in 3D with the HoloLens and can be manipulated remotely
- Documented libraries used as well as kept them up to date before hand off to customer for ease of use

Software Engineer Intern - Big Park Microsoft

05/2018 – 08/2018

Vancouver, BC, CAN

Achievements/Tasks

- Made performance tests cross platform for Canvas 3D, a 3D engine powering more than 20+ millions instances of active apps
- Improved data reporting system to handle more data while allowing users to consume data in an efficient manner
- Used C++, C#, CMake, Power BI, Powershell Scripts, Azure Cosmos DB, and Azure Functions for developing on Windows, MacOS and iOS

EDUCATION

Bachelors of Science (Major in Computing Science) Simon Fraser University

09/2014 – 06/2020

Burnaby, BC, CAN

SKILLS

C#

Python

C

C++

Powershell

HTML/CSS/JavaScript

Matlab

R

Ruby

Bash

Unity

Azure

GCP

React JS

Express JS

Django

MongoDB

CosmosDB

Git

Postman

Wireshark

PowerBI

Jarvis

PERSONAL PROJECTS

RemotechWork.com (05/2020 – Present)

- Used React JS, Express JS, and Mongo DB to create a web app that lists remote jobs in response to the COVID-19 pandemic to aid those in need for work
- Did full-stack web development with Express JS to apply CRUD operations to Mongo DB in the backend and React JS to call the Express API to receive data for the frontend
- Hosted the web app on an Azure Linux VM using NGINX as a reverse proxy server for the React and Express app and bound the IP address to a domain name

R.P.R.P.G. (Reproducible Pseudo Random Password Generator) (05/2019)

- Used Javascript to create a password generator on the client side to create a secure way to generate passwords consistently by entering data in a HTML form and using JavaScript to hash a password
- Minimize the need to save data in a database and to reduce data transferred over the network to minimize possible attack vectors
- Increased complexity to passwords by not only relying on the seed generated by the answers to prompts, but also incorporating the answers into the password generation

INTERESTS

Guitar

Foosball

Game Dev

Fiction Writing

Martial Arts