

RICHARD CHOI

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SKILLS

Languages: C, C++, C#, Go, Javascript, Java, Python, R, Racket, HTML/CSS

Tools: Git, MongoDB, SQLite, Bash, AutoHotkey, Heroku

Frameworks: Node, Express, jQuery, React, ASP.NET

EMPLOYMENT

SAP · Software Developer

Waterloo, ON · Jan 2018 - Apr 2018

- Utilized the **RAFT** consensus algorithm to build a distributed log system that handles **1000+** concurrent requests
- Solved many problems in DBMS; presented and demonstrated solutions to a group of **20+** full time employers
- Replaced the legacy back-end codebase in **C++** with **Go** to enhance request handling capacity by **over 100%**
- Created and utilized a **Python**-driven testing tool to provide **29% faster** processing speed for the log system

pVelocity · Quality Assurance Analyst

Toronto, ON · May 2017 - Aug 2017

- Wrote 50+ scripts which are used for **500+** automated test cases for the company's web application
- Optimized the test automation architecture with **Javascript** (Node), JSON and databases (**MongoDB, SQLite**)
- Actively communicated with other developers; collaborated on **13** projects
- Gained exposure to Salesforce and other CRM platforms

PROJECTS

ASA Datafest 2018 | R, Python (Pandas, NumPy)

- Participated in a hackathon; processed 16 million records of a company's real world marketing data
- Analyzed factors influencing job popularity and conducted a presentation giving suggestions for the company

Arbie | C#, ASP.NET

- Developed a chatbot that provides arbitrage information for 50+ crypto currencies in 100+ countries
- Utilized 10+ open-source APIs to collect real-time pricing data and Graph API to publish on Facebook Messenger

Breeze-Through | Java (Android Studio)

- Created a stress relieving Android application using numerous functionalities
- App diagnoses user's feelings and provides relief through relevant contents

Maestro | Javascript (Node.js, jQuery)

- Developed a web application which enables users to play a virtual keyboard online
- Users can concurrently play piano and have a conversation through instant messaging
- Achieved real-time communication functionality through Node.js

DaoStory | Python

- Developed a 2D side-scrolling role playing game that has save & load functionalities and sprite animations
- Provided players with basic customization options to enhance user experience

EDUCATION

University of Waterloo

- Bachelor of Computer Science (GPA 3.9)
- Expected Graduation Date: June 2021