3A Computer Engineering
University of Waterloo

JOHN CHUNG

(647) 987-9014
john.chung@uwaterloo.ca

LANGUAGES AND TECHNOLOGIES

- Languages: Ruby, Java, HTML, CSS, JavaScript, C, C++, MATLAB
- Scripting: Ruby, Bash, Python, Google App Scripts
- Tools & Frameworks: AWS, Docker, Vim, GIT, AWS CLI, Ruby on Rails, Android SDK
- Databases: MySQL, SQLite
- Testing: RSpec, Selenium, Espresso, Calabash, KIF

EMPLOYMENT

Software Developer **Flipp** **Winter 2017**

- Improved the team's internal web platform using the MVC architecture of **Ruby on Rails**, including the implementation of pagination and image redundancy detection
- Optimized flyer distribution algorithm to prevent content redundancy
- Authored and maintained hundreds of web scrapers using **Ruby**, HTML, and jQuery along with Selenium Web Driver and **Watir**, increasing total acquired content by **7.5**% and engagements by approximately **140,000**
- Created a backup QA server end-to-end which comprised of the configuration of **AWS ECS**, CloudWatch, and SQS, instantiation of **Docker** containers, and integration of **Jenkins** hooks
- Developed a Bash script using AWS CLI to quickly SSH into **EC2** instances, reducing process time by **90**%

QA Automation Developer **Connected Lab** **Summer 2016**

- Created an internal asset entry and tracking tool for hardware devices in Google App Script, HTML, and CSS
- Improved a Slack chatbot using **Python** and Slack API to collect weekly metrics in team performance
- Developed mobile automation test suites from scratch using **Espresso**, Calabash for Android and KIF for iOS
- Wrote XML parsing scripts in Python and Bash to export data from JIRA and Tracker boards of external clients to an internal story-tracking environment hosted on Google Sheets
- Created **Jenkins** jobs for integration of automation tests to implement continuous integration

Software QA Analyst **Unitron** **Fall 2015**

- Performed verification and validation of product features through smoke, functional, and regression tests
- Executed firmware and electroacoustic testing of hearing instruments and compatible accessories
- Created test case revisions which were applied to accommodate new product features and reduce test redundancy by **20**%

EDUCATION

Waterloo, ON **University of Waterloo** **Expected May 2019**

- Candidate for Bachelor of Applied Science in Computer Engineering; GPA: 3.45
- Coursework: Data Structures and Algorithms, Operating Systems, Compilers, Embedded Microprocessors, Digital Computers

TECHNICAL EXPERIENCE

Projects

- **Operating Systems**: Implemented FIFO and Best Fit algorithms for memory management. Tool: C
- **IBM Watson IoT Hackathon**: Developed a conversational interface to create a virtual conversation between two Amazon Alexas. Tools: Python, Watson API, Raspberry Pi
- **Reported**: An Android application to keep track of office events which can be shared through email and social media. Tools: Java, SQLite, and Android Studio