Haydn Keung

2B Honours Software Engineering, University of Waterloo haydnkeung.github.io | 778.939.1585 | hkeung@uwaterloo.ca

SKILLS

LANGUAGES

Java • Python 3 • C++ • Groovy • C# • Shell • SOL

Tools:

AWS • Terraform • Jenkins • Docker • Android • Splunk • MySQL • Packer • Slack API

COURSEWORK

UNDERGRADUATE

Compilers
Unix Tools and Scripting
ARM Assembly
Multivariate Calculus
Linear Algebra
Statistics & Probability
Digital Circuits
Formal Verification
Computer Architecture

ACCOMPLISHMENTS

CERTIFICATIONS

2020 AWS Cloud Practioner Awards:

2018 President's Scholarship of Distinction

2018 BC District Scholarship2018 UBC Physics Olympics

EDUCATION

UNIVERSITY OF WATERLOO

SOFTWARE ENGINEERING Sep 2018 - Apr 2023 | Waterloo, ON

LINKS

Github:// haydnkeung LinkedIn:// haydnkeung

EXPERIENCE

TRENDMICRO | CLOUD INFRASTRUCTURE ENGINEER

Jan 2020 - Apr 2020 | Ottawa, ON

- Wrote *Terraform* modules that are used by more then 100 engineers for managing/creating permission policies and resources on cloud providers
- Removed unutilized AWS resources by redesigning in-house tag compliance tool using *Lambda* and *Kinesis*, decreasing AWS usage costs by 75%
- Implemented highly scalable infrastructures by baking golden images using *Packer* for auto-scalaing groups and load balancers
- Used *Splunk* to create a dashboard providing near real-time analytic of service uptimes and pre-deployment test results

MADOOR | SOFTWARE ENGINEER INTERN

May 2019 - Aug 2019 | Vancouver, BC

- Implemented a payment system for the **Android** app supporting Google Pay, WeChat Pay and PayPal processing up to \$500 per transaction
- Developed an internal tool using *Java* and *Groovy* to automate pre-deployment tests, reducing deployment time by more than an hour
- Implemented in-app caching, reducing loading time by nearly 50%
- Built a UI rendering library using Java, increasing the rendering speed by 3x

NORTH GROWTH MANAGEMENT | IT SUPPORT TECHNICIAN

May 2018 - Aug 2018 | Vancouver, BC

- Worked with database administrator to connect new computers to a MS SQL database
- Installed and configured a Windows 2012 server for keeping track of client information and financial data

PROJECTS

PATENT EXCHANGE | STOCK MARKET SIMULATOR

Feb 2020

- Built a stock market simulator using Solace Pub/Sub Event broker API
- Created an Android App for users to purchase shares from different companies
- Created algorithm to populate database with random data

CHATIFY | ONLINE CHATTING FORUM

Aug 2019

- Built an online chatting forum using RESTful principals
- Created a database in **PostgreSOL** for storing chat history
- Wrote function for cleaning input data to prevent SQL and XSS injection attacks

SPACE SHOOTER | ONLINE MULTIPLAYER SHOOTER

Dec 2018

- Built a 2D multiplayer space simulation game
- Configured networking to host the game on cloud using Photon Networking API
- Wrote interpolations to predict movement of game objects, reducing lag due to network latency