

Ho Yin (Jeffrey) Kam

SKILLS

- JAVA (JDBC and Apache POI), HTML/CSS/JS, LAMP Stack, Python, Racket, Processing, Arduino (C), Fritzing, Git, RegEx

EXPERIENCES

2018 – Present

UW BLUEPRINT – Project Developer

- Helped develop software solutions for nonprofits (i.e Wikitounge) for free

2017 – Present

BIOSYNTAX – Core Developer

- Co-authored the software paper “bioSyntax: Syntax Highlighting For Computational Biology” (DOI: <https://doi.org/10.1101/235820>)
- Developed 4 syntax highlighting definitions for Sublime 3 and Gedit

2014 – 2017

AIS ENGINEERING TEAM – President & CTO of ROV Team

- Designed custom circuits and GUI using Fritzing, Processing, and JS
- Built data transmission and control system using C and Arduino

2016 – 2017

AMERICAN INTERNATIONAL SCHOOL – Student Developer

- Developed genetic algorithms to auto-generate class schedules

2014

FANCY PRODUCTION COMPANY LIMITED – Web Developer (Volunteer)

- Built client management and email sending system on LAMP Stack
- Wrote custom sorting/searching algorithms for querying clients' data

PROJECTS

2017 – Present

DREAMCATCHER – A software that measures student engagement in lectures

- Wrote REST APIs in PHP (process information between client data and machine learning APIs) and deployed on AWS

2017

LIMITING MACHINE – An earthquake detector using Arduino and Processing

- Designed algorithms to measure the magnitude of earthquakes with gyroscope and accelerometer and stabilize fluctuations in data
- Built software to graph and log data in real-time using Processing

2016

LAZYHOME SYSTEM – A system that turns normal home into smart home

- Constructed the full stack system (web/mobile interfaces and REST APIs)
- Designed custom hardware that can act on switches using ESP8266

ACHIEVEMENTS

2017

HACKSEQ17 (A BIOINFORMATICS HACKATHON) – 1st Place
by University of British Columbia

2017

MATE ROV COMPETITION HONG KONG – 3rd in Technical Report
by Marine Advanced Technology Education Centre

2017

CANADIAN COMPUTING COMPETITION – Honorable Mention
by University of Waterloo and University of Hong Kong

2016 – 2017

4TH AND 5TH GLOBAL MATH CHALLENGE – Bronze Medal
by Sony Global Education, Inc.

2016

APP JAMMING SUMMIT 2016 – 1 of 16 Finalists
by First Code Academy

2015

AMERICAN MATHEMATICS COMPETITION – 2nd in School
by Mathematical Association of America

EDUCATION

2017 – Present

CANDIDATE FOR BACHELOR OF MATHEMATICS – University of Waterloo

- GPA 3.8 (Major GPA: 3.87) - 1B Honours Mathematics (Co-op) Program