# JUN QING LIM

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## PROFILE

A fresh-graduate computer science student interested in expanding and building the future with new technical skills. Occasionally participate in programming platform to build algorithmic and computational thinking skills - see *HackerRank*.

## TECHNICAL SKILLS AND INTERESTS

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|---|---|
| **Languages** | C, C++, Python, Java, HTML, CSS, JavaScript, Haskell, Bash |
| **Tools** | Git, MongoDB, NodeJS, ExpressJS, Linode, Linux, MySQL, Bootstrap, jQuery, Spark, Kafka |
| **Programming** | Object-oriented, Functional, Imperative, Shell Programming |
| **Abilities** | Algorithms, Data Structures, Operating Systems, Mathematical Proofs, Discrete Mathematics, Continuous Mathematics |
| **Interests** | Mathematics, Algorithms, Data Structures, Programming, Formal Languages, Software Development |

## EDUCATION

**Monash University, Malaysia** *July 2018 - June 2021*
- Graduated with Bachelor of Computer Science
- CGPA: 3.94/4.00, WAM: 87 (High Distinction) - First Class Honours (Equivalent)

**University of Waterloo, Canada** *Jan 2020 - Apr 2020*
- Exchange, Mathematics - Computer Science
- Courses: Hons for Algebra Mathematics, Logic & Computation, Object-Oriented Development
- Average: 91%

**Sunway College, Malaysia** *Jan 2017 - Dec 2017*
- Western Australia Certificate of Education (WACE)
- ATAR 97.65, top 5% in the world

## WORK EXPERIENCES

**Backend Engineer (Part-Time)** - *Monash UReview, Kuala Lumpur* *Dec 2020 - Present*
- A unit reviewing system built for Monash University
- Developing RESTful APIs and maintaining source code
- Tools: Python, Django, REST

**Software Engineering Intern** - *MoneyLion, Kuala Lumpur* *Dec 2020 - Feb 2021*
- Scope: Product engineering (bank verification)
- Developed patching scripts to assist in user's bank accounts (monthly maintenance services)
- Implemented API structured logging system with SLF4J
- Tools: Java, Spring Boot, Maven, Apache Kafka, SQL, NewRelic, SLF4J

**Research Assistant (Part-Time)** - *Monash University, Malaysia*      *June 2020 - Nov 2020*
- Project: Automatic grading of English essays
- Funded by *SIT Collaborative Research Seed Grant 2020* and supervised by **Dr Ian K.T.Tan**
- Utilized Support Vector Machine (SVM) model with a scoring system to automatically grade articles
- Developed final project as a online as a service to further collect data for project improvements
- Tools: Jupyter Notebook, scikit-learn, pandas

## SIDE PROJECTS

**Tutor-Student Matching App**      *github.com/itsjunqing/tutor-student-matching*
- A tutor-student matching application that connects students to tutors according to bidding of subjects
- Utilized RESTful APIs in building a live-server
- Built with Java, Maven, Swing GUI, GSON, OkHttp

**Biquadris Game** - *A tetris-like game*      *github.com/itsjunqing/biquadris-game*
- A multiplayer tetris-like game built with C++

**HealthConnect** - *A Health Integration Network*      *github.com/itsjunqing/health-connection*
- A health integration network prototype aims to assists University of Waterloo students in accessing their health care services in Ontario, Canada
- Aims to integrate hospital, universities and health care provider in a unified system

**sThrive** - *A simple web chat application*      *github.com/itsjunqing/sThrive*
- A web chat application with a prototype of integrating with Moodle (an education platform)
- Built with socket.io, Bootstrap
- Gained knowledge in real-time communications between web clients

**TGF** - *A virtual cloud setup guide*      *tgfcloud.tk/*
- A web portal built to serve as a guidance on setting up a virtual cloud
- Hosted a virtual cloud server with LAMP stack on a Ubuntu server

**Hearts Game** - *FIT2102 Project*      *github.com/itsjunqing/hearts-game*
- A multiplayer hearts (trick-taking) game implemented with a probabilistic AI
- Developed with purely functional language – Haskell and stack ghci

**Asteroids Game** - *FIT2102 Project*      *github.com/itsjunqing/asteriods-gameplay*
- An asteroid game built with TypeScript, jQuery, and RxJs Observables
- Implemented using RxJx Observables to allow data stream in a synchronous manner

**RobinHood** - *A stock prototype*      *github.com/itsjunqing/robinhood-like*
- An attempt to develop a prototype for Robinhood-like program to raise allowance for students

## OTHER EXPERIENCES

**Shopee Code League, Singapore**      *March 2021*
A three-weeks online coding competition hosted by Shopee, Southeast Asia's largest e-commerce platform, organized for developers across Southeast Asia to improve coding abilities while focusing on data analytics, data science and algorithmic problems.

**DeltaHacks 2020, Hamilton, ON**      *Jan 2020*
An annual hackathon hosted at McMaster University, Hamilton that primarily focus on enabling hackers from all over to make a change in education, finance, health or any other field.

### StarterHacks 2020, Waterloo, ON

*Jan 2020*

Canada's first largest beginner-friendly hackathon that focuses on bringing individuals together of all skill levels to collaborate and learn more about technology while solving various kinds of real world problems.

### Google Developer Group (GDG) Conference, Kuala Lumpur

*Dec 2019*

A non-profit independent developer and user group that discuss and share experiences developing applications using Google Developer technologies like Android, Firebase, Angular, Google Cloud Platform and more. It is based in Kuala Lumpur, Malaysia.

### Monash Hackathon, Monash University

*Nov 2019*

An education-themed hackathon organized by Monash University Malaysia in collaboration with Mobius Digital to inspire students to utilize technology from public databases to artificial intelligence to innovate on ideas on improving the quality of education.

### Google Cloud Study Jam, Monash University

*Nov 2019*

A Google Cloud workshop organized by Developer Student Club – Monash University Malaysia that teaches and mentors students on learning the Google Cloud Platform (GCP) with hands-on experience on GCP Essentials and BigQuery Basics.

### Can You Hack It, Kuala Lumpur

*May 2019*

A 24-hours hackathon organized by Hong Leong Bank – a major publicly listed banking group in Malaysia with an objective of revolutionizing the banking industry in Malaysia

## HONORS AND AWARDS

- **Monash High Achiever Award** [2018-2021]
- **Monash Straight High Distinction Commendation** [2019, 2020]
- **Top 5% in of Western Australia Certificate of Education** [2017]
- **5th Kangaroo Math Competition Malaysia** [2017] - Distinction
- **Sunway College Special Scholarship** [2017]

## PUBLICATIONS

- Ian K.T. Tan, Jun Qing Lim. (2021). Voting Ensemble for Automated Essay Scoringwith Enhanced Shallow Linguistic Features. *Monash University, School of Information Technology*
- Jun Qing Lim, Yin Cheng Chang. (2020). Simulation of an Alert Detection in a Distributed Wireless Sensor Network with Message Passing Interface. *Monash University, School of Information Technology*

## LANGUAGES

- English
- Mandarin Chinese
- Malay