

A multi-cultural, creative and detailed individual with a demonstrated ability to develop effective and efficient solutions who is looking to join a company that possesses a progressive approach towards implementing new and sophisticated technologies, where my technical and communication skills will be fully harnessed.

## EDUCATIONAL BACKGROUND

---

B.Sc., Computer Science, City University of Hong Kong (expected July 2020) (Major GPA: 3.08/4.3)

**Relevant Coursework:** Design and Analysis of Algorithms, Software Design and Development, Fundamentals of Internet Application Development, Data Intensive Computing, Multimodal Interface Design, Object Oriented Programming, Data Structures, iOS Application Development.

Minor, Information Management for Finance, City University of Hong Kong, Kowloon Tong, Hong Kong

**AWARDS:** Came 1<sup>st</sup> in a University-wide Robotics Competition for which, won an award for Outstanding Innovation.

## INTERNSHIP EXPERIENCE

---

**SHELL STREET LABS** | Tin Hau, Hong Kong

June 2019 – August 2019

### Artificial Intelligence Intern

- Was part of the 'Credit Trading Strategies' and 'Data Science, Engineering and Infrastructure' teams.
- Was responsible to build **Artificial Intelligence** based quantitative strategies for trading in the Credit Market this involved trading CDS Indices and Bonds, also due to my prior experience in Software Engineering I was working on Data Engineering and DevOps.

**SIEMENS** | Science Park, Hong Kong

June 2018 – April 2019

### IT Placement and Research Intern

- Currently working on a standalone PoC where the objective is to develop a smart apartment ecosystem by managing electricity and water usage by means of **Deep Learning**.
- Developing sophisticated Web applications for a multitude of Siemens clients predominantly around Data Analytics, Energy Management and IoT.

**CITY UNIVERSITY OF HONG KONG** | Kowloon Tong, Hong Kong

June 2018 – Present

### Research Assistant

- Worked as a Research Assistant under Dr. Alvin Leung for the topic 'A Big Data Modeling approach for Stock Prediction'
- Tasks partaken were Data Cleaning, **MySQL** Database maintenance, **Python Scripts** for scraping and parsing data and performing subsequent **exploratory** analysis.

### Software Development Intern

- Sole Intern that was part of the 5 member team, responsible for creating a Gamification Mobile application titled '**SWITCH**' in partnership with the Singaporean company Gametize, for the client **Petronas** under the management of Accenture. (Currently **5000+** downloads on the Play Store) (Play Store page link: <https://play.google.com/store/apps/details?id=com.petronas.switch&hl=en>)
- The Native Mobile application was created using the **React-Native** JavaScript framework, with various Gamification functionalities implemented using Gametize's own API.

---

### TECHNICAL AND OTHER RELEVANT SKILLS

- Full-stack Web development (HTML, CSS, React, Angular, Mongo, Express, Node, Vue, Marko.js)
- Big Data Analytics (Hadoop, MapReduce, PySpark, Elasticsearch, Apache Kafka, Redshift)
- Relational Databases (MySQL and PostgreSQL)
- Elementary Machine-Learning and Deep Learning (Python, R, TensorFlow, KNIME Analytics, Orange)
- Object-oriented Programming using Java and C#.
- iOS Application Development
- Languages Spoken (English, Hindi, Tamil, elementary Arabic, elementary French)

---

### ACADEMIC & PERSONAL PROJECTS

#### Horama: (COMPLETED)

- 'Horama' (vision in Greek) is an **Image classification** and a real-time object detection iOS application that utilizes Apple's **CoreML**.
- The application also possesses a **text-to-speech** feature by utilizing AVFoundation's AVSpeechSynthesizer.

#### Gesture based control in Gaming: (IN-PROGRESS)

- Using **Computer Vision** developed a manner by which gamers can drive cars effortlessly in GTA V by means of intuitive gestures.
- Offer gamers an option to toggle between using the conventional 'W','A','S','D' keyboard or using the **voice command** 'Driver Mode ON' use the gesture based driving system.
- The players can also **toggle** between the radio stations in the vehicle using their voice saying 'Radio station NEXT' or 'Radio station PREVIOUS'.
- The script can also be utilized on other games acting as a Sandbox such as the Need for Speed or Forza Racing franchises.

#### PCA Explorer: (COMPLETED)

- Currently developing a web application that will help **Data Analysts** understand their data.
- This is achieved by offering them an intuitive interface that helps them interact with their data and offers them a quick and intuitive to perform a complicated level of exploratory data analysis.
- This application was built using R, HTML, CSS and **React**.