

## Professional Experience

---

### Compare Global Group

Hong Kong

#### Senior Front-End Developer (AngularJS, Dynamic Web-Apps)

April 2016 – Present

- Using AngularJS and Grails to develop front-end of a multi-tier, highly dynamic web application with many components:
  - ❖ Led team to create a form library to dynamically generate forms on the client with nearly infinite configurability handling highly sensitive user financial data.
  - ❖ Developed a CMS platform to allow the business to make changes to the application without need of developers.
  - ❖ Migrated several of the client businesses from the legacy application with smooth switchover and zero downtime.
  - ❖ Developed an A/B testing solution to test customer journeys and used gleaned data to improve user conversions by up to 50%.

### pqx Limited

Hong Kong

#### Software Developer (ES6, VR, Computer Vision, Real-time GIS Data-Manipulation)

July 2015 – April 2016

- Leveraged the Three.js library to design a 3D framework to visualise data in Augmented Reality (AR).
- Used WebVR for adaptive Virtual Reality 360 video with augmented data in the browser.
- Used Python OpenCV to do image features detection for horizon 'tilt' and 'roll' detection to stabilize 360 videos.
- Javascript ES6 to create highly extensible and modular web applications:
  - ❖ Using Babel.js to transpile to ES5 for wide web support, Browserify to conjugate dependencies and UglifyJS for minifying files for quick web delivery.
- Designed Golang and Node.js apps to process GIS data and then deliver them over REST APIs for use in web apps.
- Used Socket.io web sockets for real-time time-series data updates inside web apps.
- Created Content Management Systems and back-end servers using Perl to serve large data files.
- Performed MySQL optimisations for faster data access through better indexing and appropriate use of database engines.

### Kerry Logistics Network

Hong Kong

#### Programmer (.Net, ERP)

October 2014 – July 2015

- Developed ERP for Freight Forwarding on .Net:
  - ❖ Used Windows Presentation Foundation (WPF) for front-end, using Telerik libraries to create flat interactive UI.
  - ❖ Leveraged Entity Framework for Object Relational Mapping, LINQ for MySQL backend DB to enable data layer separation.
  - ❖ MEF for extensible application development, OData to supply RESTful services and complete server-client separation.
- Agile-Scrum methodology with extensive pair-programming and adherence to coding standards. Test driven approach using NUnit framework for unit and integration tests.

## Technical Skills

---

**Languages:** Javascript, Python, Go, .Net (C#, Entity Framework, OData for REST, WPF), MySQL, Java

**Systems and Libraries:** UNIX, Linux, OpenCV, Sci-kit Learn

**Version Controls:** Git, TFVC (Team Foundation Version Control)

## Leadership

---

### AngelHack Hong Kong

Hong Kong

#### City Ambassador

January 2015-June 2015

- Organised AngelHack Hong Kong 2015 with over 150 participants.

## Education

---

### The University of Hong Kong (HKU)

Hong Kong

- Bachelors of Engineering in **Electrical Engineering**, minor in **Economics**
- Full tuition scholarship for entire major
- **Languages:** English (first), Urdu (second)

June 2014  
Honours 2:1