# Andy (Chak Hong) Yee

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### **Experience**

**Posse Productions LLC –** Software Developer

New York, NY / January 2016 - September 2016

- Built RESTful APIs using Rails for consumption by team's mobile and web clients as sole backend developer.
- Developed internal and user-facing dashboards using Javascript, HTML/ERB, and CSS, enabling clients to manage user accounts and application resources.
- Integrated payment and cloud technologies for client applications by integrating third-party services such as Braintree and Firebase into Rails apps by setting up necessary HTTP requests, endpoints, and webhooks.

#### CBS Local - Intern Software Developer

New York, NY / June 2015 – August 2015

- Developed Wordpress CMS (PHP) to enable news editors to publish content to a worldwide audience.
- Collaborated in an agile workflow with development, design, and QA teams to improve and maintain web frontend, providing news and multimedia content for specific geographical markets.

## **Projects**

**Bufferflow, 3D Stackoverflow visualization** | three.js

[live / github] September 2017

- Created 3D data visualization to convey distribution of interest for different technologies using data from the Stackexchange API and three.js, a Javascript WebGL library.
- Utilized sprint.js, a lightweight jquery-like library, to dynamically update statistics and implement user interaction with 3D models.

Airbase, an Airbnb inspired SPA | React, Redux, Rails, PostgreSQL

[live / github] September 2017

- Implemented international venue search using PgSearch to perform efficient, multi-column database queries.
- Improved database read time using eager loading to avoid n+1 queries.
- Integrated Google Maps and Places APIs to enable interactive venue search, as well as database seeding with real-world venue information.
- Avoided redundant third-party API requests by storing venue assets on AWS S3.

#### Chem, a 3D Molecule Viewer | Unity, C#

[github] May 2015

- Designed and implemented a chemical molecule parser using Unity which accepts SDFs (structure data file) and renders corresponding molecules in 3D.
- Incorporated support for Leap Motion, allowing users to interact with molecules through hand gestures.

### **Technical**

Languages: Ruby, JavaScript, HTML, CSS, SQL, Frameworks / Libraries: Rails, React, Redux, jQuery

C++

Tools / Editors: Atom, Bash, Git, Webpack, Babel,

Vim

### Education

**Bachelor of Science in Computer Science** 

Vestal, NY / August 2011 – December 2015

Binghamton University - Watson School of Engineering

App Academy, Software Development

New York, NY / July 2017 - September 2017

Rigorous, 1000-hour coding school for web programming, design patterns, algorithms with acceptance rate < 3%.