**Matthew Sah**

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**EDUCATION**

**University at Buffalo, The State University of New York *Expected Graduation: August 2020***

Master of Science in **Engineering Science (Data Science)**

* *A three semester program focused on providing rigorous training in programming, machine learning, data analytics, SQL, and quantitative theories.*

**Fu Jen Catholic University, New Taipei City, Taiwan. *September 2014*** ***- June 2018***

Bachelor in Business Administration,

Major in **Information Management** Minor in **Computer Science and Information Engineering**

* *Call Recording System – Best Popularity Award* *- International ICT Innovation Services Award. Earned among 100+ teams of contestants*

**PROFESSIONAL EXPERIENCE**

**Mindcraft - Taipei, Taiwan**

*Software Engineer* ***April 2018 - August 2019***

* Developed web services solutions with end to end responsibilities by studying information needs, conferring with clients, and studying systems flow, data usage, and work processes
* Reduced redundant time by developing scripts on Jenkins to simplify service monitoring, and unit test to automate and complete testing
* Utilized Scrum for Agile development, participated in team-led solution and code reviews for coworkers

**SELECTED PROJECTS**

**Data Center** *- Java, Spring, Hibernate, PostgreSQL, Web Crawler, Git, RESTful, JSON, API* ***April 2018 - August 2019***

* Extracted and transformed open data into technical solutions for multiple high-volume platforms of major banks and telecommunication services companies
* Implemented 150+ API for response with minimal latency
* End to end development throughout whole employment duration and minimized system downtime

**Call Center Recording System** - PHP, MySQL, Apache Tomcat, HTML/CSS/JavaScript ***March 2017 - December 2018***

* Cooperated with Hualiteq to develop and integrate their Call System into a customizable and scalable Customer Relationship Management (CRM) System now deployed in major banks in Taiwan
* In charge of collaboration, coordination and system analysis with Hualiteq throughout entire duration
* Lead of product management, database design and back-end development for a team of 4

**Insights of the Current Software Engineering Market** - Python, SQLite, Git ***October 2019 - December 2019***

* Designed and visualized analysis of the tech job market in regards to necessary skills required, anticipated salary, and prospects expected from the market
* Implementation using data mining techniques in Python with emphasis on Exploratory Data Analysis(EDA) and data processing
* Coordinated team progress and managed version control as leader in a team of three

**Analysis of the Airbnb** - Python, Git  ***October 2019 - December 2019***

* Built predictive model of the Airbnb market in New York using machine learning methods, with an objective to provide new hosts pricing recommendation for optimal customer retention
* Statistical data mining and visualization of key points to gain traction and tenants with tools such as NumPy, pandas, Scikit-learn, statsmodel, seaborn and more.

**SKILLS**

* Programming Languages: Java, Python, PHP, SQL, MATLAB, R, Shell Scripting
* Developing Skills: Spring, Hibernate, Docker, GIT, UNIX, Web Scraper, Agile, Jenkins, JUnit, Maven
* Data Science Skills: NumPy, pandas, Scikit-learn, statsmodel, seaborn, Tensorflow.