# 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.