

Matthew Sah

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EDUCATION

University at Buffalo, The State University of New York
Master of Science in **Engineering Science (Data Science)**

Expected Graduation: August 2020

- 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.