# William Yu

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## EDUCATION

### COLUMBIA UNIVERSITY
M.S. Data Science
Expected Dec 2020 | New York, NY
GPA: 3.66 / 4.0

### UC IRVINE
B.S. Applied Mathematics
Received June 2019 | Irvine, CA
GPA: 3.765 / 4.0

## COURSEWORK

### GRADUATE
Algorithms for Data Science
Elements of Data Science
Exploratory Data Analysis
Probability and Statistics for Data Science
### UNDERGRADUATE
Statistical Methods for Data Analysis
Probability and Stochastic Processes
Statistical Methods for Finance
Data Structures and Algorithms
Linear Algebra
Partial Differential Equations
Numerical Analysis
Linear Analysis
Database Management

## SKILLS

### PROGRAMMING
Python • R • MATLAB • SQL
### MARKUP
LaTeX • HTML • CSS • D3
### TECHNICAL
Docker • Vim • Git
### OTHER
Chinese (Mandarin) • French

## ADDITIONAL

### UC IRVINE
Dean's List: Winter 2018 - Spring 2019
Pi Mu Epsilon: Math Honors Society
Math Honors
### OTHER
GRE General: 326 / 340

## INTERESTS

Basketball
Piano
Photography

## EXPERIENCE

### CLOUDMINDS TECHNOLOGY  | Data Science Intern
Jun 2018 – Sept 2018 | Santa Clara, CA
- Classified 10000+ samples of raw audio data using data clustering algorithms k-means and tSNE
- Created data parser and formatter to review deep-learning model
- Implemented dialogue framework with chatbot by utilizing Google's DialogFlow

### CLOUDMINDS TECHNOLOGY  | Software Developer Intern
Jun 2017 – Sept 2017 | Santa Clara, CA
- Developed Android app that implements CloudMind's speech-to-text function
- Integrated CloudMinds' Speech Recognition and Google Cloud Speech API to record and submit audio
- Uploaded 6000+ audio waveforms onto AWS by utilizing external web service

### IBM  | Software Developer Intern
Jun 2016 – Sept 2016 | San Jose, CA
- Created Android app that allows users to track Pokemon Go locations in area
- Stored 100+ Pokemon into IBM Cloudant and used data to make suggestions to user
- Utilized Google Maps API and IBM Cloudant Geospatial to record user and Pokemon location

## RESEARCH

### UC IRVINE  | Research Assistant
Sept 2018 - Jun 2019 | Irvine, CA
- Implemented deep learning and statistical methods for time series forecasting
- Compared deep-learning methods to traditional time series analysis such as ARIMA
- Predicted stock returns with sliding window and moving average methods

## PROJECTS

### NYC ACCIDENT ANALYSIS
- Exploratory data analysis project on NYC car accidents using R and Shiny
- Investigate accident-prone ZIP codes and determine dangerous intersections
### STOCK PREDICTOR
- Used Python machine learning library keras to make predictions on stocks
- Incorporate LSTMs to retain past stock price info

## LEADERSHIP

### ALPHA KAPPA PSI  | Active Brother
Jun 2018 - Jun 2019 | Irvine, CA
- Maintained pledge class' account balance and provided weekly reports of expenses to the chapter
- Raised 3000 dollars (a 25% increase from Fall 2017) within three weeks through fundraisers and corporate outreach
- Pitched 40 page business plan with market research, ROI analysis, mock-ups, marketing recommendations