William Yu

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EDUCATION

COLUMBIA UNIVERSITY
M.S. DATA SCIENCE
Expected Dec 2020 | New York, NY

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
Math for Finance
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

STOCK PREDICTOR
- Used Python machine learning library keras to make predictions on stocks
- Incorporate LSTMs to retain past stock price info
PERSONAL WEBSITE
- Self-taught HTML and CSS to create interactive website
- Integrated Amazon Web Services to host website

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