

# William Yu

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## EDUCATION

### UC IRVINE

**B.S. APPLIED MATHEMATICS**  
Expected June 2019 | Irvine, CA  
GPA: 3.74 / 4.0

## COURSEWORK

### 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  
Group Theory  
Database Management  
Calculus with Analytical Geometry  
Differential Equations  
Elementary Analysis

## SKILLS

### PROGRAMMING

Python • Java • SQL • MATLAB • R

### MARKUP

$\text{\LaTeX}$  • HTML • CSS

### TECHNICAL

Docker • Vim • Git

### OTHER

Chinese (Mandarin) • French

## ADDITIONAL

### UC IRVINE

Dean's List: Winter 2018, Spring 2018, Fall 2019

Pi Mu Epsilon: Math Honors Society  
Math Honors

### OTHER

GRE General: 326 / 340

## INTERESTS

Basketball  
Piano  
Photography  
Travel

## EXPERIENCE

### CLOUDEMINDS TECHNOLOGY | DATA SCIENCE INTERN

June 2018 – Sept 2018 | Irvine, CA

- Classified 10000+ samples of raw audio data using k-means and t-SNE
- Created data parser and formatter to review deep-learning model
- Implemented dialogue framework with chatbot by utilizing Google's DialogFlow

### CLOUDEMINDS TECHNOLOGY | SOFTWARE DEVELOPER INTERN

June 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

June 2016 – Sept 2016 | Santa Clara, 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 – Present | Irvine, CA

- Implementing deep learning to predict evolution trends based on historical data
- Comparing deep-learning methods to traditional regression methods such as ARMA models
- Researching the properties of wave propagation and how noise increases over longer distances of signal

## PROJECTS

### STOCK PREDICTOR Sept 2018 - Present

- Use Python machine learning library keras to make predictions about stocks
- Fetches real-time stock quotes through Quandl API to use as training data

### PERSONAL WEBSITE June 2018 - Present

- Self-taught HTML and CSS to create interactive website
- Integrated Amazon Web Services to host website

## LEADERSHIP

### ALPHA KAPPA PSI | ACTIVE BROTHER

June 2018- Present | 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