

# William Su

DEVELOPER · STUDENT

2600 Gramercy Street, Houston TX, 77030

☎ +1 (360) 213 - 6063 | ✉ WillSu@WilliamSu.me | 🌐 www.WilliamSu.me | 📷 WillSu88 | 📺 WillSu88

## Summary

Motivated CS student with experiences in machine learning, reactive web & iOS app development, and database management. Comfortable working in a software team environment, speaking to clients, and managing products through agile life cycles. Currently open to summer 2020 internships that can leverage my skills as a software developer.

## Education

### Rice University

Houston TX, USA

B.A. AND MASTER OF COMPUTER SCIENCE

Aug. 2017 - May. 2021

- Academic Fellow for COMP 215 Intro to Program Design
- Vice President for Rice Taiwanese Association
- Courses: Models for Data Science, Parallel Programming, Linear Algebra, Computer Systems

## Experiences

### Expero Inc.

Houston TX, USA

SOFTWARE ENGINEERING INTERN - EDGE ML ON FPGA TEAM

May 2019 - July 2019

- Achieved 80% accuracy in malware detection through training a fully-connected neural network with Keras.
- Reduced complexity to inject neural network onto FPGA through post-quantizing network weights.
- Validated code correctness of an FPGA using Verilog through developing tests in C and Xilinx Vivado.
- Streamlined a data pipeline across multiple AWS services using Apache Nifi.

### Lam Research

Shanghai, China

DATA SCIENCE INTERN - CSBG DEPARTMENT

June 2018 - Aug. 2018

- Automated daily data ETL process through Python, reducing time up to 2 hours a day.
- Redesignated data exploration testing procedures by implementing temporary databases in SQLite.
- Generated weekly sales data visualizations using Matplotlib, Seaborn, and QlikSense.

## Projects

### News Sentiment to Stock

Github

- Engineered multiple sentiment analysis techniques for news articles to predict stock prices.
- Built a bag-of-words model that outperforms Apache's NLTK in stock prediction.

### Hedwig

Github

- Developed 2 iOS campus-food delivery apps with React Native, GraphQL, and mLab.
- Consolidated payment security & improved inventory management by integrating Stripe.
- Wireframed the apps' UI using Invision Studio.

### What's My Next Book

Github

- Implemented & analyzed 4 different book recommender systems.
- Trained models in parallel on the cloud using Jupyter, Keras, and AWS EC2.

## Skills

<b>Programming</b>	Python · Java · C · Bash · Latex
<b>ML / Data</b>	Keras · Pandas · Numpy · SQL · MongoDB · GraphQL
<b>Front-End</b>	React · MobX · HTML5 · CSS · Javascript · InVision
<b>DevOps</b>	Git · AWS · Docker · Apache Nifi
<b>Languages</b>	English · Mandarin · Taiwanese