

# William Su

DEVELOPER · STUDENT

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## 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 engineer.

## Education

### Rice University

Houston TX, USA

MASTER OF COMPUTER SCIENCE & BACHELOR OF ARTS IN COMPUTER SCIENCE

Aug. 2017 - May. 2021

- RiceApps Software Developer
- 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
- GPA: 3.72/4.00

## Experiences

### Expero Inc.

Houston TX, USA

SOFTWARE ENGINEERING INTERN - EDGE ML ON FPGA TEAM

May 2019 - July 2019

- Trained a fully-connected neural network with Keras achieving an 80% accuracy in anomaly detection.
- Remodeled the neural network to be FPGA-compatible through post-quantizing its weights.
- Developed experiments in C and Xilinx Vivado to validate neural network logic written in Verilog for the FPGA.

### Lam Research Corporation

Shanghai, China

DATA SCIENCE INTERN - CSBG DEPARTMENT

June 2018 - Aug. 2018

- Created Python scripts to automate daily data ETL process, reducing time up to 2 hours a day.
- Redesigned data exploration operations by implementing temporary databases in SQLite.
- Visualized weekly sales and machine usage data through 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

**Programming** Python · Java · C · Bash · Latex

**ML / Data** Keras · Pandas · Numpy · SQL · GraphQL

**Front-End** React · MobX · HTML5 · CSS · Javascript · InVision

**DevOps** Git · AWS · Docker · Apache Nifi

**Languages** English · Mandarin · Taiwanese

**Interests** Basketball · Photography · Meditation