

William Su

DEVELOPER · STUDENT

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Skills

Programming Python · Java · C · Bash · Latex
ML / Data Keras · Pandas · Numpy · SQL · MongoDB · GraphQL
Front-End React · MobX · HTML5 · CSS · Javascript
DevOps Git · AWS · Docker · Apache Nifi
Languages English · Mandarin · Taiwanese
Courses Models for Data Science · Parallel Programming · Program Design · Computer Systems

Experience

Expero Inc.

Houston TX, USA

SOFTWARE ENGINEERING INTERN - ML ON FPGA TEAM

May 2019 - July 2019

- Achieved 80% accuracy in malware detection through training a fully-connected neural network.
- 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.
- Redesigned 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

DATA SCIENCE RESEARCHER

May 2019 - July 2019

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

Hedwig

Github

SOFTWARE DEVELOPER - VENDOR APP TEAM

Aug 2018 - May. 2019

- Developed 2 iOS campus-food delivery apps with React Native, GraphQL, and mLab.
- Consolidated payment security & improved inventory management by integrating Stripe.
- Secured legitimate partners through negotiating directly with on-campus food vendors.

What's My Next Book?

Github

DATA SCIENCE RESEARCHER

Oct. 2018 - Dec 2018

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

Education

Rice University

Houston TX, USA

B.A. AND MASTER OF COMPUTER SCIENCE

Aug. 2017 - May. 2021

- Academic Fellow for COMP 215 Program Design
- Rice Taiwanese Association Vice President
- Rice International Student Mentor