FREDERICK WANG

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EDUCATION

Bachelor of Science, Computer Science

Aug 2017 - May 2021

Rice University - (GPA: 3.4/4.0)

SKILLS

- Languages: Python, Java, SQL, C, R, React
- Tools: Git, MongoDB, Neo4j, Spark, Hadoop, Node.js, TensorFlow, AWS, Unix

EXPERIENCE

Lutron Electronics, Inc. – Software Engineering Internship accepted

Summer 2020

• Cancelled due to COVID-19 pandemic

Polytronix, Inc. – Software Developer Intern

Jul 2018 - Dec 2018

- Designed and developed a Java application to automate bid search process and customized data entry
- Led to replacing 4 hours of daily manual work and tripling the daily biddable product pool

Vinstar Big Data – Data Science Intern

May 2018 – Jul 2018

- Designed a **Python** and **SQL** program to categorize nonstandard descriptions with 90% accuracy, assisting with urban development
- Implemented modified Levenshtein Distance to discern categories from Chinese phrases in **Python**

Computational Neuropsychology and Simulation Lab at UNT – Research Assistant

Feb 2016 – May 2017

- Redesigned test administration and data collection/entry process to double testing capacity
- Investigated subcortical circuits that influence neurocognitive illnesses with Dr. Thomas Parsons, Ph.D.

Rice University OIT Help Desk – *Student Consulting Assistant*

Apr 2019 – Current

- Communicating and delegating tasks effectively with team members to solve customer issues quickly
- Resolving account issues, troubleshooting laptop software or hardware failure to customer satisfaction

PROJECTS

Inventory Managing and Invoicing Application

 Inventory management and invoice creation CRUD application using the MongoDB, Express, React, Node.js stack for personal business use

Document Classification Projects

- Implemented both a recurrent neural network and a feed-forward network with **Python** and **Tensorflow** to tag a line of text to its document with over 85% accuracy
- Implemented a kNN classifier with **Python** and **Spark** to classify documents with nearly 90% accuracy using

"Looking For Group" Discord Bot

- Designed and developed a Discord server bot using the **Discord.py API** to allow users to create online groups for activities with custom notifications
- Serves over 100 users, shortening wait times to find a group by several hours

Kernel and File System

- Kernel from scratch for yalnix in C with virtual memory management, context switching, and fork support
- File system from scratch for valuix in C with read, write, seek, and hard link functionality

Data Entry Automation – Rice University

• Streamlined new student data entry from PDFs with several **Python** programs

LEADERSHIP

Rice University First Year Programs – Orientation Week Coordinator

Dec 2018 - Sep 2019

- Planned and created Rice O-Week 2019, interviewed and led over 200 student leaders
- Prepared and executed 2 weeks of events with a cohesive theme and mission statement in mind to welcome the incoming freshmen
- Collaborated with many university offices to effectively host campuswide events and showcase Rice resources