ANDREW TSENG

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EDUCATION

University of Texas at Austin **Grad Date: December 2018**
Bachelor of Science in Computer Science, GPA: 3.4 / 4.0

WORK EXPERIENCE

Kershner Trading Group Summer 2018, November 2019 - Present
Software Engineer **Austin, TX**

- Built internal tools to monitor real time heartbeat of order management system. Heartbeat messages are processed to a monitor window for IT staff to use.
- Optimized data feed server to take in sentiment data on ticker symbols from dataset providers.
- Designed and developed backend feature of recycling shares within trader accounts for other traders to use throughout the trading day.

Vast.com Summer, 2017
Product Developer Intern **Austin, TX**

- Worked with a team of 5 other interns in developing a side product for Vast.com
- Utilized Vast.com's Carstory data to make a webpage to list out car information for a used car pop-up.
- Worked with other UX designers in designing posters/online ads to promote the car pop-up product.

Compal Electronics Summer, 2016
Software Engineer Intern **Taipei, Taiwan**

- Rewrote developer admin database pages into templates and added management features.
- Developed sanity tests to help with continuous integration to help find bugs in the in-house API.
- Debugged and refactored MongoDB schema for new category of data in database.
- Researched IoT concepts/protocols for R&D for potential uses on new products.

Dr. Bill Bulko, University of Texas Spring 2016, 2017
Teaching Assistant for Discrete Mathematics **Austin, TX**

- Led discussion sections that reviewed topics of the weekly lectures.
- Helped grade weekly homework and developed homework and midterm/final problems.

PROJECTS

Type Inference System in C **December 2017**

- Implemented type inference features in C with the **auto** keyword.
- Created symbol table and file rewrite in replacing auto keyword to correct type.
- Rewrites the auto keyword to the type that it infers based on the C-program.
- Wrote test scripts in Bash to make find corner cases along with string parser that finds lexes within the input program.

Linux Kernel **September 2018**

- Developed a Linux kernel in C++ that handles threads, concurrency tools, virtual memory, file systems, user mode and system calls.
- Developed script that automates testing and presents results onto a static website.
- Designed threading system in intention to prevent deadlocking and manage re-entrant functions.
- To avoid baggage that C++ brings, avoided using C++ STL throughout development.

LANGUAGES AND TOOLS

Experience : Python | Javascript | Linux command line | C/ C++
Familiar : MySQL | Java | R | MATLAB | Verilog | LaTeX| Docker | Google Cloud Platform

RELEVANT COURSEWORK

Computer Vision | Info retrieval | Advanced Computer Architecture | Operating Systems
Data Mining* | Algorithms | Programming Languages* | Data Structures | Real Analysis
* denotes honors course