

ANDREW TSENG

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EDUCATION

University of Texas at Austin
Bachelor of Science in Computer Science

Graduation Date: December 2018

WORK EXPERIENCE

Kershner Trading Group - Software Engineer

February 2019 - Present

- Ported code in various application to move order system and simulation system from Windows to Linux.
- Built internal tools to monitor real time heartbeat of order management system. Internal tool found 19 inter-application bugs throughout the past 9 months.
- Optimized data feed server to take in sentiment data on ticker symbols from providers. Improved feed server to pick up 100% of the news messages from 66%.
- Designed and developed backend feature of recycling shares within trader accounts for to use throughout trading day.
- Redesigned server in order management system to send FIX4.2 messages to a risk management provider.
- Educated IT operations team in using new monitoring system to catch issues with connections across multiple components in the order management system.

Vast.com - Software Engineer Intern

Summer, 2017

- 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 - Software Engineer Intern

Summer, 2016

- 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

- 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

- 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

- Developed Linux kernel in C++ featuring threads, concurrency tools, virtual memory, file systems and system calls.
- 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.

Lilypond - Facebook Messenger Bot

- Facebook Messenger bot that converts textual music notes into a music sheet.
- Utilized ImageMagick, C++, NodeJS to convert and parse text and create music sheet PNG file.

LANGUAGES AND TOOLS

Experience : Python | Java | C/ C++ | Visual Studio | *nix | Git

Familiar : MySQL | R | MATLAB | Verilog | L^AT_EX | Docker | Google Cloud Platform | Javascript/React | Jenkins | Anaconda | Microsoft SQL MS