

ANDREW TSENG

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EDUCATION

University of Texas at Austin
Bachelor of Science in Computer Science, GPA: 3.4 / 4.0

Grad: December 2018

WORK EXPERIENCE

Vast.com
Product Developer Intern

Summer, 2017
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
Software Engineer Intern

Summer, 2016
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
Teaching Assistant for Discrete Mathematics

Spring 2016, 2017
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, filesystems, user mode and system calls.
- Developed script that automates testing and presents results onto a UTCS student 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.

Reddit Match Scraper

- Reddit bot scraper that scrapes a subreddit in order to find pro NBA match results.
- The scraper presents the results of the match and the top relevant comments within the match thread.
- Script is written in Python using the praw library.

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