

ANDREW TSENG

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EDUCATION

University of Texas at Austin
Bachelor of Science in Computer Science
Seeking full-time Software Engineer/Data Engineer position

May 2018

EXPERIENCE

Vast
Summer Intern

Summer 2017
Austin, TX

- User testing of research by in-person and online discussions.
- Designed pop up car event for private dealers and buyers to gather for talks and negotiations.
- Utilized CarStory's (product of Vast) data to create an iOS app to display detail pages of every car at the event.
- Worked with a team of developers, and designers to convert designs to website/app.

Compal
Software Engineer Intern

Summer 2016
Taipei, Taiwan

- Rewrote developer pages that held food calorie values from JS to React.
- Developed sanity tests to help with continuous integration and finding bugs on every push to project repo in python.
- Participated in the release of the developer version of third-party fitness application.
- Team worked in the agile development process

TA for Discrete Mathematics
Dr. Bill Bulko, University of Texas

Spring 2016, 2017
Austin, TX

- Led discussion sections that reviewed topics of the weekly lectures.
- Helped grade weekly homework and proctored mid-terms and finals.
- Wrote up weekly problems to go over during discussion sections.
- Designed homework problems and exam questions for the course.

SKILLS

Languages	C/C++, Python, R, HTML/CSS, Java, Swift, Javascript
Tools	Git, GDB, Travis CI, \LaTeX , *nix cmd line, Eclipse, MongoDB, Google Tests, Weka, Docker

PROJECTS

Linux Kernel

Fall 2017

- Implemented a kernel with a heap allocator, multi-threading, semaphores/locks, ext2 file system and automatic reference counter in C++.
- Wrote test cases and testing harness to help with running tests for portions of the kernel in bashscript and no standard library/STL.
- Course project for Operating System class in university.

Type Inference 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.

Lilypond Parser
<https://github.com/teeseng/lilypond-parse>

November 2017
Javascript, AWS

- Facebook chatbot that parses a simple music notation called Lilypond and returns a music sheet image.
- Wrote parser to the music notes compiles into Lilypond and Magick to crop image from page size to minimal size.