

# ANDREW TSENG

andydomokun@gmail.com ◇ github.com/teeseng ◇ linkedin.com/in/teeseng

## 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.

**Teaching Assistant 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 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 |  $\text{\LaTeX}$  | Docker | Google Cloud Platform

## RELEVANT COURSEWORK

---

Computer vision | Info retrieval | Advanced Computer Architecture  
Operating Systems | Data Mining\*\* | Algorithms | Programming Languages.