

ANDREW TSENG

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EDUCATION

University of Texas at Austin

Bachelor of Science in Computer Science, GPA: 3.4

Organizations: Machine Learning Data Science, Mathematics Club

Expected Graduation: December, 2018

WORK EXPERIENCE

Vast.com

Data and Software Intern

Summer 2017

Austin, TX

- Handled implementing UX designs onto website for new product at carstory.ai
- Created scripts that the data science team can use to clean and manipulate data for analysis.
- Worked with data science team to create in house tools to model data.

Compal Electronics

Software Engineer Intern

Summer 2016

Taipei, Taiwan

- Rewrote developer admin database pages into templates that allowed for later creations to be easier.
- Developed sanity tests to help with continuous integration and finding bugs on every push to project repo.
- Debugged and refactored MongoDB schema for new category of data in database.

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 proctored mid-terms and finals.
- Wrote up weekly problems to go over during discussion sections.

PROJECTS | PORTFOLIO

Image Resizer

February 2018

- Implemented a image resizer using the seam-carving algorithm in MATLAB.
- Features include reducing, and increasing size of the image file.

Face Detector

May 2018

- Implemented a face detector using the Dalal-Triggs algorithm in MATLAB on an image.
- The detector detects a given training set at 0.897 AP for over 250 images.

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.
- Test scripts in Bash to make find corner cases along with string parser that finds lexes within the input program.

Lilypond Parser

HackTX 2017

November 2017

- 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.

LANGUAGES AND TOOLS

Experience : Python | Javascript | Linux command line

Familiar : C++ | C | MySQL | Java | R | MATLAB | Javascript/React | Verilog | \LaTeX