ANDREW TSENG

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EDUCATION

University of Texas at Austin **Expected Gradution: December, 2018**
Bachelor of Science in Computer Science, GPA: 3.4
Organizations: Machine Learning Data Science, Mathematics Club

WORK EXPERIENCE

Vast.com Summer 2017
Data and Software Intern **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. (Spark, Scala, SQL)
· Worked with data science team to create in house tools to model data.

Compal Electronics Summer 2016
Software Engineer Intern **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 Spring 2016, 2017
Dr. Bill Bulko, University of Texas **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 November 2017
HackTX 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 | C/ C++

Familiar : MySQL | Java | R | MATLAB | Javascript/React | Verilog | LATEX| Docker | Google Cloud Platform