

# Florian J. Janke

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## EDUCATION

**University of Texas at Austin** – *Bachelor of Science in Computer Science* May 2020  
Courses – data structures, discrete math, computer architecture, operating systems, information retrieval and web search, algorithms and complexity, networks, parallel computing

## EXPERIENCE

**Bilingual Annotation Tasks Force** – *Undergraduate Research Assistant* March 2018 - Current

- Detected named entities in mixed language tweets using Conditional Random Fields (CRFs) in Python.
- Classified English-Spanish and Modern Standard Arabic-Egyptian tweets with above-baseline accuracy.

**McCombs School of Business** – *Undergraduate Research Assistant* November 2017 - April 2018

- Implemented a data collection program that measured engagement and attentiveness of participants.
- Integrated component into a larger chain of surveys to record and relay data as part of a larger study.

**WP Engine** – *Software Engineering Intern, Austin, TX* June 2017 - August 2017

- Developed a system to manage and deliver notifications through the company's user portal to over 60,000 customers as an ongoing effort to decrease clutter in email inboxes.
- Focused primarily on the deployment pipeline (RSpec tests run in Jenkins, deployment to Heroku) and front end integration (SASS, CoffeeScript).
- Gained knowledge about Ruby on Rails, continuous development and integration, and the Agile workflow.

**Fort Worth Museum of Science and History** – *Digital Learning Guide* February 2015 - May 2015

- Tasked with guiding visitors through installations, explaining the science behind the exhibitions.
- Directed activities using technologies such as Arduinos, Makey Makey, and MonkeyJam.

## PROJECTS

**Intern Directory** – <https://intern.directory>

- Built a landing page and data processing pipeline for a service that connects students with each other to learn about cultures and applications at other companies.
- Set up a system integrating Google Forms, Apps Script, and Sheets to collect, analyze, and present data.

**Ctrl-F Video** – <https://video.loud.red>

- Assembled a service that finds the time at which a word or phrase was said in a YouTube video by searching through the video's transcript.
- Built using Node.js, Express, and YouTube's CC functionality.

**Pitch.py** – <https://git.io/viRuO>

- Programmed a Python script that takes a video and MIDI file and combines pitch-shifted video snippets to the melody of the MIDI file.
- Deployed the script in a virtualized environment on AWS to learn about EC2 and spot instances.

## LEADERSHIP AND CAMPUS INVOLVEMENT

**Perez Elementary School** – School Volunteer, Robotics 2018

**Freetail Hackers, HackTX** – Innovation Team Director 2018

**IEEE Robotics and Automation Society** – Secretary 2017

**Asian American Culture Committee, Campus E+E** – Event Coordinator 2017

## SKILLS

**Programming languages** Proficient – JavaScript, Java, and web technologies (HTML5 and CSS).

Knowledge – C, PHP, Ruby, MATLAB, SQL, and Python.

**Frameworks and systems** Node.js, Express, jQuery, Ruby on Rails, Linux, OpenCV, Socket.IO, Amazon Web Services (AWS), RSpec, and Docker.

**Languages** Fluent in German. Intermediate knowledge of French. Basic Korean.