

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

WP Engine – *Returning Software Engineering Intern*, Austin, TX June 2018 - August 2018

- Embedded in scrum team working on maintaining tools to backup and transfer customer site data.
- Decreased daily maximum throttled disk writes on production servers by around 40% by implementing changes to behaviour of site backups.
- Integrated site data restore system in customer-facing site management portal.

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 - June 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 an internal API to manage and deliver notifications from internal processes to customers.
- Focused primarily on deployment pipeline (RSpec, Jenkins, Heroku), and front end integration.

EXTRACURRICULAR PROJECTS

Umlauter – <https://github.com/jaflo/umlauter>

- Corrects German transcriptions to use the proper Umlaut ü (frueher → früher) through browser extension.
- Uses machine learning to predict if a substitution should be made (90.6% true positives, 0.3% false positives). Model built from corpus using Python and used by JavaScript in-browser.

Kurz.app – <https://kurz.app/>

- Assembled a service that shortens music files as seamless as possible by finding repeated sections of audio.
- Running as serverless application with static JavaScript front-end and Python back-end on AWS Lambda.

Pitch.py – <https://git.io/viRuO>

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

PUBLICATIONS

Janke, F., Li, T., Guzmán, G., Rincón, E., Bullock, B. and Toribio, A.J. “The University of Texas System Submission for the Code-Switching Workshop Shared Task 2018.” Proceedings of the Third Workshop on Computational Approaches to Linguistic Code-Switching. 2018.

LEADERSHIP AND CAMPUS INVOLVEMENT

Perez Elementary School – School Volunteer, Robotics 2018

Freetail Hackers, HackTX Hackathon – 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, SciPy, Jupyter, Socket.IO, Amazon Web Services (AWS), RSpec, Docker, MPI, and OpenMP.

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