



## Jacob Pawlak

Computational Linguist  
Software Engineer  
Digital Cowboy

Experienced Linguist and Developer with five years of industry work creating software, websites, voice models, data pipelines, and visualizations based on company or customer requirements.

Adaptable in my field and able to move between systems at a rapid pace. Very knowledgeable in the Python Language for desktop programming, data science, and machine learning. Highly skilled with JavaScript for web programming, and now web3. Linguistic skills include TTS and STT, manual transcription, sentiment analysis, and IVR platform design.

Data science skills include collecting data via API calls and web scraping engines, pipelining cloud-based ETL solutions, and building visualization dashboards in Tableau.



Jacobcpawlak@gmail.com



502-294-3973



@jacob\_pawlak



jacobpawlak.com

## Work and Experience

### Apple | enUS Computational Linguist | November 2020 - Current

~ As the solo enUS Linguist on the IVR team, my responsibilities include building in-house TTS and STT toolchains, synthesizing new voice builds, fine-tuning corpora, and technical documentation. Python is the main language used, tying into several proprietary tools and platforms. Other activities outside the IVR team involve creating machine learning models.

### Tom Sachs Discord | CAPCOM Moderator | September 2021 - Current

~ As a community member turned moderator, my duties are to relay information from Mission Control (The Studio) to new and long-term members, protect the server from spam and attacks, to answer questions about The Studio and the Rocket Factory, and to help host the ~weekly AMAs.

### Untitled Firm | Developer | March 2019 - March 2020

~ Built frameworks to pull data from Twitter and scrape sentiment data out of tweets. From there, crafted visualization dashboards in Power BI to model the data collected. Some of my favorite and most successful toolchains include the Twitter Sentiment Analysis Machine, a Word-Press to Salesforce bridging app, the Alcohol Bottle Image Recognition Tool, and two web scraper templates built on Python's Beautiful Soup and Selenium libraries. My new-hire responsibilities included designing and programming WordPress and Shopify sites for e-commerce clients.

### Interapt | Lead Curriculum Engineer | March 2018 - March 2019

~ Responsibilities included discovery, development, and maintenance of a custom MERN full-stack curriculum. As this project-based curriculum was developed, it was also my responsibility to make assessment materials, student application portals (small micro sites), and report all ongoing research to my supervisor. During the Summer of 2018 I managed two curriculum team interns. Both of these interns were offered full time positions in the company.

### Lucille1 | Founder, Director of Mining | January 2018 - February 2020

~ Designed, constructed, and maintained a cryptocurrency mining pool. Generated all business materials, demos, pitch decks, and source data for the Gatton Entrepreneurship Bootcamp. Built 2 alt-coin mining machines, and purchased 2 ASIC machines that were run in my apartment.

## Education

### BS Computer Science | University of Kentucky | 2018

~ Member of the local ACM chapter. Coursework in Computer Theory, Databases, Algorithm Design and Analysis, Web Programming and Software Engineering. Competed and placed in numerous regional Hackathons (UofK and UofL).

### BS Linguistics | University of Kentucky | 2018

~ Concentration in Computational Linguistics. Coursework in Computational Linguistics, Advanced Morphology, Syntax, Phonetics and Phonology, and Formal Semantics and Pragmatics.

## Technical and Personal Skills

- ● ● ● ● Python
- ● ● ● ● OS(Mac, Linux, Windows)
- ● ● ● ● Javascript
- ● ● ● ● AWS Cloud Platform
- ● ● ● ● CMS
- ● ● ● ● MySQL / NoSQL DB
- ● ● ● ● Task Automation
- ● ● ● ● Technical Writing/Documentation
- ● ● ● ● Data Viz

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NASA