









# MICHAEL SENDKER

Software Developer

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## WHO I AM

I prefer Python, but I wear many hats. I have written code in C#, Python, vanilla JavaScript, and ReactJS. I have dabbled in C, Scheme, C++, and Bash. I have built static sites in GatsbyJS, interfaces in WPF, and web scrapers and bots in Python. I even built an arduino-based PID controller for a popcorn popper to roast my own coffee. But by far most of my time has been spent developing a single web technology, consisting of  $\approx 14,000$  lines of code in Python, Flask, and SQLAlchemy, in the pursuit of my obsession with literature: anno.wiki.

Most of all, I am a thoughtful programmer. I think twice about abstraction or hard coding, I think about tech debt and the way users will interact with a feature. Because to build a community platform, you have to.

## EXPERIENCE

2017 – 2019

### Intertextual Canon Cloud (anno.wiki)

Flask App

The ICC is a web application designed to allow for collaboratively building an exhaustive and definitive repository of annotated literature. I designed, developed, deployed, and continue to maintain the project solo, managing occasionally to rope in some programmer friends for help with various features. It consists of  $\approx 14k$  lines of code and  $\approx 100k$  lines of code churn. The backend uses Flask/SQLAlchemy. The frontend uses Jinja2, Sass, and VanillaJS. I also had to write several ETL data pipelines for processing Project Gutenberg texts. It is deployed via Heroku. I learned the entire web application life cycle on this project, and it continues to teach me. It is currently maintained at <https://anno.wiki>.

Python / Flask / SQLAlchemy / MariaDB / Elasticsearch / pytest / Heroku

2019 – Current

### Intertextual Canon Cloud 2

Flask/React App

This is the second iteration of the ICC, with improved data architecture and a single-page application front end based in React. Using Elasticsearch to store texts and PostgreSQL to store annotations and general application data allows for faster incremental searching. I also wrote more sophisticated text processors for breaking text into 100k byte chunks and annotating stylistic elements, while stripping all styling from the raw text.

Python / Flask / SQLAlchemy / Elasticsearch / PostgreSQL / Docker / Auth0 / ReactJS

2020 – Current

### Euler Sciences LLC

Contract Developer

I worked on a GUI interface for laser system meant to treat skin conditions. I also developed the company website in GatsbyJS (and did the graphical work myself in Photoshop).

C# / Windows Presentation Foundation / SQLite / Photoshop / GatsbyJS

2020 – Current

### Healthy Brands, LLC

Contract Developer

I've worked on several projects for this company:

- I built and deployed a multithreaded scraper and alert system for notifying the company of BuyBox loss events on Amazon using a variety of data sources
- I launched and modified a Django-based question and answer forum from biostars
- I prepared and maintained several VPS servers, including one in Arch Linux
- I designed and maintained several WordPress sites
- I integrated Twilio into the company's ZOHO CRM software
- I also modified several Shopify templates.

Python / BeautifulSoup4 / Zoho / Twilio / WordPress / Shopify

## EDUCATION

2008 – 2010

### Philosophy and Classics

Florida State University

Focused on Ancient Philosophy, particularly Aristotle, Philosophy of Mind, and Symbolic Logic. Also studied Ancient Greek and Latin. President of Philosophy Club (2010)

2007 – 2008

### Philosophy

University of South Florida

General introductory classes, Social Philosophy, Critical Thinking

## LANGUAGES

**English** — native,  
**French** — fluent,  
**Spanish** — rudimentary

## FREE TIME

I love high culture. Coffee, wine, cheese, cocktails, literature, music, art, cinema, science; anything that makes life worth living. And running.

## CLOSING ARGUMENT

I have had enough experience learning new things to have full confidence in my ability to learn new things.