




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.

I am a lifelong learner, constantly finding new things to obsess over. In the last 3 years I've learned the intricacies of wine and cheese, learned to roast coffee and brew top-tier espresso, become a sophisticated mixologist, and learned to speak French.

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.

EXPERIENCE

- 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've:
- 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
 - launched and modified a Django-based question and answer forum from biostars
 - prepared and maintained several VPS servers, including one in Arch Linux
 - designed and maintained several WordPress sites
 - integrated Twilio into the company's ZOHO CRM software
 - and modified several Shopify templates
- Python / BeautifulSoup4 / Zoho / Twilio / WordPress / Shopify
- 2019 – Current **Intertextual Canon Cloud 2** **Flask/React App**
This is the second iteration of the ICC (see below), 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
- 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

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