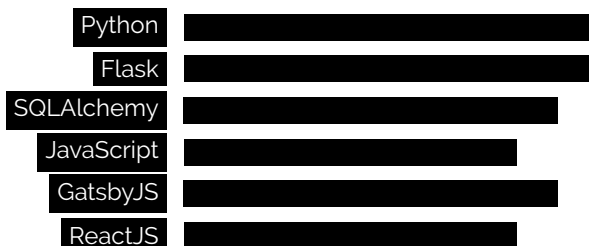# MICHAEL SENDKER

Software Developer

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michael-sendker

malan88

malan88

WHO AM I?

I consider myself principally a Python developer. I have spent the past three years developing a diverse range of software in Python, from ETL pipelines to password generators to combinatoric optimizers. But by far most of my time has been spent developing a single web application, consisting of $\approx$ 14,000 lines of code in Python, Flask, and SQLAlchemy, in the pursuit of my obsession with literature: anno.wiki.

Python
Flask
SQLAlchemy
JavaScript
GatsbyJS
ReactJS

neovim   git   Heroku   AWS   MariaDB   Linux

PROJECTS

2018 – Current **anno.wiki (International Canon Cloud)** **Web App**
Designed, developed, launched, and maintained solo. $\approx$ 14,000 lines of code. Backend using Flask/SQLAlchemy. Frontend using Jinja2, Sass, and VanillaJS. Wrote many ETL data pipelines for processing Project Gutenberg texts. Required an incredible amount of problem solving. Learned entire web application life cycle. Maintained at anno.wiki.
```
Python / Flask / SQLAlchemy / MariaDB / Elasticsearch / pytest / Heroku
```

2020 **language-map.com** **ReactJS App**
ReactJS web app to show which countries speak your language. Built using React Simple Maps and Material-UI components. Required extensive data-gathering web scraping project.
```
JavaScript / ReactJS / React Simple Maps / Material-UI / Python / BeautifulSoup4
```

2020 **Letters of John and Abigail** **Twitterbot**
A bot that tweets the corpus of the letters of John and Abigail Adams. Hosted on AWS Lambda using AWS DynamoDB for keys to access texts hosted on Netlify.
```
Python / Tweepy / AWS Lambda / AWS DynamoDB / Boto3 / BeautifulSoup4
```

2020 **vote.py** **Scheduler**
Automated Python script to encourage and remind people to register to vote. Deployed using AWS EC2 instance to enable continuous service. Integrated Twilio as texting client.
```
Python / sched / AWS EC2 / tmux / Twilio
```

2019 **Minimal Pairs Scraping Project** **Scraper**
Anki deck with audio files for recognizing phonemes difficult for an American English speaker using "minimal pairs," words in French which differ by only one phoneme. API request limit of 500 per day required use of JSON file to save progress.
```
Python / requests / BeautifulSoup4 / json / csv
```

EDUCATION

2008 – 2010 **Philosophy and Classics** **Florida State University**
Focus on Ancient Philosophy, particularly Aristotle, Philosphy of Mind, and Symbolic Logic. 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** - proficient, **Spanish** - rudimentary

HOBBIES

I love high culture. Wine, literature, music, art cinema; anything that makes life worth living. And running.

STRENGTHS

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