

Michael Joseph Rosenthal

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 github.com/micimize  stackoverflow.com/users/2234013/micimize

I have been a Software Engineer for more than 8 years, and have expertise with a variety of tools and frameworks at every level of the stack.

PROFICIENCIES

Skills: Machine Learning, Operations Engineering, Fullstack Architecture

Languages: Python, Dart, PL/pgSQL, Typescript, Javascript, shell scripting, GraphQL

Frameworks: fast.ai, pytorch, Flutter, Django, Flask, React

Interests: Machine Learning Self Study, Meditation, Travel, Philosophy, Writing

EXPERIENCE

Lead Data & Operations Engineer

Dec 2018 – Mar 2020

Environmental Defense Fund, Contract; Remote

Built the data infrastructure for the [Air Quality Data Commons](#). Responsibilities included:

- A generalized air quality data pipeline, capable of ingesting a wide swath of air quality data formats
- A superset resource and [dashboard](#) generator for exposing and visualizing secure bigquery resources automatically.
- internal tools and [APIs](#) for accessing and managing data projects and [schemas](#)
- Google Cloud infrastructure management, deployments, and scripting
- Rigorous technical writing, including detailed documentation, roadmaps, architecture proposals, expository issues, and user guides for a wide range of audiences.

Fullstack Developer

Aug 2014 – Dec 2018

Various Contracts; Global (traveled)

As a contractor, I usually wear multiple hats, often managing AWS deployments, writing server and frontend logic, and integrating external services for the client as needed. Some specific solutions include:

- An interactive ETL pipeline builder written in Clojure
- Dockerized python microservices deployed to AWS
- A [peerassets crypto wallet](#) built with react-native

As well as a number of web applications built with Python and/or Javascript.

Data Engineer/Analyst

Jun 2012 – May 2014

BuzzPoints; Austin, TX, USA

- Categorized millions of unlabeled records with PostgreSQL functions and modules
- Implemented PCI compliant ETL systems for sensitive, non-standardized client data
- Data reporting and visualization tools (Python, PostGIS)
- Implemented a raw text tokenization and labeling pipeline (Apache Camel, Elasticsearch)

EDUCATION

University of Texas at Austin

2011 – 2013

Computer Science (Junior)

References available upon request