

Michael Joseph Rosenthal

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I have been a web developer and operations engineer for more than 7 years, and have expertise with a variety of tools and frameworks at every level of the stack.

Experience

Freelance Fullstack Developer

- Various Contracts
- Aug 2014

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 Analyst

- BuzzPoints
- Dec 2013 – May 2014
- Austin, TX, USA
- Categorized millions of unlabeled records with PostgreSQL functions and modules
- Scraped large and varying third party data sets and synthesized it with internal data
- Analyzed potential client data, providing market and profit analysis for data-driven sales
- Managed and reported on financial data for 20+ banks and 3,000+ merchants
- Implemented PCI compliant ETL systems for sensitive, non-standardized client data

Operations Engineer

- BuzzPoints, Internship
- Dec 2012 – Dec 2013
- Austin, TX, USA

In addition to typical deployments and systems administration work, this role involved implementing:

- Data integrity and ETL testing
- Data reporting and visualization tools (Python, PostGIS)
- A raw text tokenization and labeling pipeline (Apache Camel, Elasticsearch)

Web Developer

- BuzzPoints, Internship
- Jun 2012 – Dec 2012
- Austin, TX, USA
- Implemented Application features with Java/Spring
- Automated browser testing with Java Selenium

Education

Machine Learning Self Study

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- 2017 – Present

I completed [the Andrew Ng Coursera course](#) with a 95.7%. I've also watched the [Ludobods Lectures](#) on Evolutionary Robotics, as well the [Oxford DeepNLP lectures](#).

The University of Texas at Austin

- Computer Science Junior
- 2012 – 2013

CS courses included Data structures, Logic, Matrices, Computer Architecture, and automata Theory. Other coursework included Multivariable Calculus and Enlightenment Philosophy.

Projects

live-neat

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- Jul 2017 – Nov 2017

A rtNEAT neuroevolution engine written in typescript. While it functions offline, the goal was to make a distributed, embeddable solution. Thus this project is incomplete.

polypacker

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- Feb 2016 – Mar 2017

A universal javascript build and distribution tool built on top of webpack. Included sub-projects such as [jargon-parser](#), a JSON schema driven argument parser, with recursive expressivity.

bufflehead

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- Feb 2016 – Jun 2016

A proof-of-concept domain driven fullstack framework with a plugin architecture. Included sub-projects such as [strictduck](#), a retroactive inheritance system for javascript, as well as fullstack plugins for express, couchdb, and react.

type-quotes

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- Dec 2013

My oldest still-used project, a Unix utility for feeding quotes to gtypist to type over. Comes prepackaged with The Art of War and The Dhammapada

Proficiencies

- Javascript and Typescript
 - Python
 - Operations Engineering
 - Machine Learning
 - React.js, React Native
 - Django, Flask, Bottle.py
 - Amazon Web Services (AWS)
 - Postgres
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