Michael Dougherty

Software Engineer — Portland, OR
http://michaeldougherty.info

Independent contractor providing efficient, correct software solutions to complex problems which minimize harm and maximize good.

PAST EMPLOYMENT EXPERIENCE

Senior Software Engineer
2016 - 2017
ReactJS Django
Docker

CrowdStreet, Inc.   Portland, OR

Maintained and built features for a large existing Django web app

Did a greenfield rewrite of large swaths of the front end in React; built a custom data table framework

Owned and maintained a multi-instance Docker-based devops setup

Software Engineer
2014 - 2015
Python Django
AngularJS
Elasticsearch

Building Energy, Inc.   Portland, OR

Implemented a management system which the city of San Francisco currently uses to manage its building energy benchmarking requirements.

Put BE "on the map" – made their app geospatially aware with a searchable map of buildings and a custom geocoding service.

Consultant
2010 - 2014
Python PHP
HTML/CSS

Web Development Consultant   Portland, OR

Doing literally everything, often as a one-man team. Front end, back end, devops, and some design. See below for details on recent clients.

Research Assistant
2005 - 2009
C++ MATLAB

Pennsylvania State University   State College, PA

Designed and coded simulations of crowd behavior in C++.

Used data mining and neural networks to predict strength and reliability of materials based on microphotographic cross-sections

Sole programmer on these and several other projects

EDUCATION

2007 - 2009

M.S. Computer Science   Penn State University

Completed entire program *except for thesis*

2002 - 2006

B.S. Electrical Engineering   Penn State University

PAST CLIENTS

2014

Lead Developer
Python   Node.js   Rails

Sterling Lentz Design & Development

Portland, OR

Worked as the Development arm of a small design studio to bring forth various cutting-edge websites.

Lead Developer
Developer
Python   Flask   Jade

SalterMitchell

Washington, D.C.

Single-handedly developed a site for a genetics research startup which interfaces with a complex API. Worked tightly with a small team of in-house designers and developers as a remote contractor across the country.

2013

Lead Designer
Lead Developer
Python   Django   Sass
PostgreSQL

University of North Carolina

Chapel Hill, NC

Worked closely with a UNC research team to design and develop an open-source web application for visualizing and interacting with geospatial data. Designed a public-facing site to showcase this application. Also designed a highly customized website to showcase a professor's research projects.

Developer
PHP   Laravel

partlyhuman / This Is Pop / NBC Universal

New York, NY

Worked with one other developer and a game design team to create a new online HTML5 game for NBC Universal's Character Arcade. Designed the entire backend to the game, working closely with the NBC team to connect their API to the game's frontend. Helped the NBC team white-label the game so as to produce other versions with different game assets and branding.

Developer
CoffeeScript
HTML5 Canvas

Grove

Portland, OR

Collaborated with the Lead Developer to create a feature-rich HTML5 tool for iPhone case customization. Also did maintenance and implemented various new features on their highy-customized Django-powered eCommerce site.