Henry Dotson

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Experience

Software Engineer
Food52, New York, NY   Apr. 2017 - Present

- Build and write API integrations, features, React-based internal tools, and server-side scripts in Ruby/Ruby on Rails for eCommerce platform

- Deploy automation infrastructure using Chef scripting and other DevOps methodologies

Data Warehouse Engineer
Moda Operandi, Inc., New York, NY   Feb. 2016 - Mar. 2017

- Managed & updated AWS data warehousing processes for eCommerce platform using MySQL, Ruby/RoR, Python / Shell scripting

- Developed data warehouse features to account for schema changes in the production database and handle specified reporting requests

- Developed payment, commission, and shipping features for primary platform codebase for agile, weekly deployment cycle

Database Engineer / IT Consultant
Tristate Biodiesel, LLC, Bronx, NY   Jun. 2011 - Present

- Developed features and maintained internal database with MS Access/VBA frontend and MySQL + postgreSQL backend server running on Linux (CentOS)

- Provided IT support for office staff in a Windows Domain, onsite and remotely

Software Developer / Investigator
New York Environmental, Inc., Port Washington, NY   Jun. 2014 - Aug. 2015

- Architected and developed a Rails application to display data about interior spaces in customer facilities via links embedded within an SVG floorplan generated from AutoCAD

- Performed maintenance and upgrades on laboratory MS Access legacy database

Data Analyst / Environmental Investigator
Microecologies, Inc., New York, NY   Oct. 2013 - Jun. 2014

- Developed sampling plans, performed air/water sampling using proprietary equipment, and conducted data analysis to draft reports on environmental investigations for clients

Data Engineering Intern
NYC Dept. of Environmental Protection, Jamaica, NY   Jun. 2012 - Aug. 2012

- Created a database application using ArcGIS and VBA for entering and managing inspection data of Bluebelt properties

- Generated data trees for import into the Avantis software system

Operations & IT Manager / Database Engineer
Tristate Biodiesel, LLC, Bronx, NY   Aug. 2007 – Jun. 2011

- Developed internal database w/ MS Access/VBA frontend and MySQL backend server running on Linux to manage operations as client base increased by 500% within 2 years

- Designed and implemented database integration features including: service call scheduling, truck routing with RoadNet technology, and collections tracking

- Created system to extract data from fuel inventory management & billing softwares

Projects

Pagevault.io

A full stack web application for online note-taking with rich text formatting and embedded images (using AWS S3 storage), and includes end-to-end client side encryption using the Stanford Javascript Crypto Library
STACK: Rails, React.js, PostgreSQL, AWS, SJCL, HTML, CSS, Git

Water Portal

Master's thesis project - a web application interface for accessing and analyzing government groundwater monitoring data
STACK: Ruby, Rails, React, D3.js, PostgreSQL, AWS, HTML, CSS, Git, ArcGIS

Technical Skills

Proficient:
- Ruby / Ruby on Rails
- JavaScript
- HTML/CSS
- React.js
- D3.js
- Flux
- AWS
- Heroku
- SQL / MySQL / PostgreSQL
- Linux / Red Hat Linux
- Windows Domain & Linux server administration
- MS Access / VBA

Familiar:
- Python
- Node.js
- ArcGIS
- AutoCAD
- Adobe Creative Suite CS6

Education

Pace University
M.S. Environmental Science (Completion: 2018)

Coursework complete.

Currently developing Groundwater Monitoring Data Visualization dashboard using Ruby/RoR (back end), React.js (front end), D3.js, ArcGIS mapping software, and SQL for parsing, manipulating and displaying U.S. Geological Survey data from the early 1930s to present.

App Academy
Completed 2015

Hampshire College
B.A. Social Psychology 2006

Stuyvesant High School
Graduated 2002

Languages

English
Proficient / native speaker

Spanish
Conversationally fluent