

# Henry Dotson

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## Experience

### Data Warehouse Engineer

Moda Operandi, Inc., New York, NY

Feb. 2016 - Present

Manage & update AWS data warehousing processes for eCommerce platform using MySQL, Ruby/RoR, Python / Shell scripting

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

Develop 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 + postgresSQL 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 wrote Rails application to display data about interior spaces in customer facilities via links embedded within an SVG floorplan generated from AutoCAD drawings

Performed maintenance and upgrades on laboratory MS Access legacy database

Prepared CAD drawings detailing asbestos to be abated

### 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 environmental inspection reports 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

Implemented updates to GIS maps features related to Bluebelt assets

### Operations & IT Manager / Database Engineer

Tristate Biodiesel, LLC, Bronx, NY

Aug. 2007 - Jun. 2011

Developed internal database with MS Access/VBA frontend and MySQL backend server running on Linux (CentOS) to manage customers and general operations as client base increased by 500% within 2 years

Built billing & inventory system to extract data from fuel inventory management software  
Generated reports and analyzed data for strategic decision-making

## 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  
AWS  
Git  
Heroku  
SQL / MySQL / PostgreSQL  
Linux / Red Hat Linux  
Windows Domain admin  
Linux server admin  
ArcGIS

### Familiar

Python  
Shell scripting

## Education

### Pace University

M.S. Environmental Science  
(Courses completed 2015,  
Masters Data Engineering project  
ongoing)

### App Academy

Full Stack Development  
(Completion: Dec 2015)

Studied object oriented  
programming in Ruby and  
modern full stack web  
development skills in: Rails,  
React, JavaScript, Node.js,  
HTML, CSS, Flux

### Hampshire College

B.A. Social Psychology 2006

### Stuyvesant High School

Graduated 2002

## Languages

### English

Proficient / native speaker

### Spanish

Conversationally fluent