Henry Dotson

henry.d.dotson@gmail.com
github.com/l3iodeez
http://hdotson.com
646-301-5604

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

JSAsteroids
A pure Javascript implementation of the classic game Asteroids. I plan to build on this to make a multiplayer game in the spirit of Agar.io

STACK: JavaScript, HTML, CSS, Git

Mapport
A web app that leverages in-line SVG to deliver contextual inspection data to clients

STACK: Ruby, Ruby on Rails, PostgreSQL, AWS, HTML, CSS, Git

Water Portal
My Master's thesis project - a web application interface for accessing and analyzing government groundwater monitoring data

STACK: Rails, React, D3.js, PostgreSQL, AWS, HTML, CSS, Git

Experience

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 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

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

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

Technical Skills

Ruby / Ruby on Rails
JavaScript
HTML/CSS
React.js
D3.js
Node.js
Flux
AWS
Heroku
SQL / MySQL / PostgreSQL
Linux / Red Hat Linux
Windows Server 2008/2012
Active Directory
Windows Domain administration
Linux server administration
ArcGIS
AutoCAD
MS Access / VBA
Adobe Creative Suite CS6

Education

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

Pace University
M.S. Environmental Science
(Completion: 2016)
Groundwater Monitoring Data Visualization project using D3.js, ArcGIS mapping software, and SQL to develop an intuitive interface for parsing, manipulating and displaying U.S. Geological Survey data.

Hampshire College
B.A. Social Psychology 2006

Stuyvesant High School
Graduated 2002

Languages

English
Proficient / native speaker

Spanish
Conversationally fluent