

Henry Dotson

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Experience

Full Stack Web Development Student

appAcademy, Inc., New York, NY

Sept. 2014 - Present

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

Created and developed note encryption and sharing web application

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 drawings

Performed maintenance and upgrades on laboratory MS Access legacy database using VBA

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 environmental sampling 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

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

Created system to extract data from fuel inventory management software and process for billing

Generated reports and analyzed data for strategic decision-making

Legal Assistant / IT Support

Kirby, McInerney, LLP, New York, NY

Jun. 2000 - Sept. 2004

Implemented upgrade of time keeping software on 30+ workstations

Trained staff and created procedural documentation for use of Timeslips v10.

Provided desktop support and troubleshooting

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 & Linux
server administration

ArcGIS

AutoCAD

MS Access / VBA

Adobe Creative Suite CS6

Education

Pace University

M.S. Environmental Science
(Completion: 2016)

Researching and writing on
Groundwater Monitoring
Data Visualization report
using D3.js, ArcGIS mapping
software, and SQL to
develop an intuitive
interface for parsing,
manipulating and
displaying U.S. Geological
Survey data from the early
1930s to present.

Hampshire College

B.A. Social Psychology 2006

Stuyvesant High School

Graduated 2002

Languages

English

Proficient / native speaker

Spanish

Con conversationally fluent