DAVE ANDERSON

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Engineer curious how data can be used to drive software development as well as people's decisions and perceptions of the world.

Skills and proficiency

Java, Python, Databases, Git, SQL, JavaScript, Web Applications, Project Management (strong)
Data science, Data analysis, Data visualization, D3.js, Pandas, Redis (moderate)

Experience

Recurse Center Retreat
Nov 2015 - Feb 2016

Autodidactic retreat for self-development in programming excellence
- Focused on building knowledge of full stack development and data analysis in Python, JavaScript, Java as well as reviewing data structures, algorithms and unit test frameworks.

Infosys
Jun 2006- Oct 2015

Technology Lead | October 2014 - October 2015 // Technology Analyst | June 2012 - September 2014
Sr. Software Engineer June 2008 - May 2012 // Software Engineer June 2006 - May 2008
Consultant for a major pharmaceutical company providing technical and business subject matter expert advice and working with teams to develop, maintain and support business critical web applications.
- Proposed, planned and worked with multiple teams and stakeholders for execution of multiple simultaneous projects totalling over $200k in 2015
- Develop scripts (python, SQL, bash), processes, documentation and training materials to improve efficiency of 12 offshore developers and 4 offshore support team members.

Projects

Planigale
Recurse Center 2015
https://git.io/v2VRo

Web-based guessing game. A console and web-based educational game for matching genus and species with a photo of a critter pulled from the Encyclopedia of Life API developed through pair programming.
Skills: Redis, Heroku, JSON, Python, Flask, Jinja2, HTML, CSS

Citi Bike Trip History
Recurse Center 2016
https://git.io/v2VRX

Dynamic map-based data visualization. A dynamic look at every trip taken by Bike # 77139 during the busiest month of New York's bike share (August 2015). This was the result of data exploration of open bike usage statistics using Pandas and pair programming in JavaScript with D3.js and geographic data.
Skills: Python, Pandas, JavaScript, D3js, GeoJSON, TopoJSON, ShapeFile, ogr2ogr

Platform Architecture Migration
Infosys 2014, 2015

Platform Upgrade + Disaster Recovery Implementation. Designed and coordinated platform migration / upgrade and Disaster Recovery implementation for portfolio of validated web applications.
Skills: Databases, Architecture, JEE, Disaster Recovery

Version Control Migration
Infosys 2015

Git version control migration and training development. Researched version control systems and best practices for migration from legacy version control (VSS) to modern version control (TeamForge + Git). Created guidelines for workflow and repository management best practices for use in portfolio of applications, cleaned and prepped application repositories, created documentation and trained team.
Skills: Git, VSS, TeamForge, Documentation, Training

Web service Logging, Metrics & Monitoring
Infosys 2014, 2015

Analysis of web service performance and errors. Designed and implemented changes to allow for easy logging, reprocessing and development of meaningful metrics to quickly identify and remediate data processing errors in minutes rather than hours or days.
Skills: REST, Architecture, JEE, JBoss, Database Design, SQL, Bash

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Education

Rutgers : College of Engineering // Mechanical Engineering, *cum laude* // (2002-2006)