Sol Vitkin

GITHUB
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Software engineer with experience developing applications that harness data science technologies. Excited to tackle all stages of a project. Strong engineering principles can be applied to new development environments and challenges.

EXPERIENCE

Freelance Software Engineer
Adam Poots Games LLC
Remote
03/19 - Present

Currently developing game testing application for in-development board game. Refactored existing PHP back-end codebase. Optimized data pipleines between MySQL database and application. Designed and built new front-end to minimize cognitive load on game testers, and maximize information captured at each stage of game.

Data Scientist
Science & Technology Policy Institute
Washington DC
10/16 - 09/18

Developed and deployed data science application to production, analyzing the U.S. federal government's portfolio of earth observations. Application is beginning to be used in multiple federal agencies. Built in-house R library and interactive tools for non-technical users to automate report generation, create data visualizations, and run interpretable regression analyses. Mentored junior level employees in best practices for coding and technical project management.

Research Assistant
University of Rochester
Rochester NY
05/13 - 12/15

Developed Naive Bayes Classifier in project related to homophily and urban sorting. Reduced noise in data with Python. Identified and mapped distribution of racial groups on venue scale in 8 large cities.

PROJECTS

Leaflet Timeline Slider

Plugin for popular javascript mapping application Leaflet. Users can customize appearance of timeline and change map based on their own function. Effectively balances giving user control and guiding their design decisions. Code available at https://github.com/svitkin/leaflet-timeline-slider.

NBA Trade Network

Application allows users to investigate and discover the relationships between NBA players that arise from trades. Clean and decoupled workflow between data scraping and reactive front-end. Hosted at https://svitkin.shinyapps.io/bball-trade-network/.

Curry World

Currently in development. Django based website with Postgres back-end and REST API. Integrates diverse data types into single, guided user interface. Code available at https://github.com/svitkin/curryworld.

Education

University of Rochester
MS Data Science 2016
BA Economics 2015

Languages

English
Russian

PROFESSIONAL SKILLS

Skill	Level	Skill	Level
R	●●●●●	Python	●●●●○
PostgreSQL, MySQL	●●●●○	Django	●●●●○
HTML, CSS	●●●●○	Javascript	●●●●○
PHP	●●●●○	Neo4j	●●●○○