Alex Shelmire

1325 N 5th St, Apt 303, Philadelphia, PA 19122 | 310.430.6333 | shelmire@gmail.com
Github: shelmire (private repos, code sample available on request)

Skills

Expert: Full-stack web development, data collection, database management, data processing
Current techs: Ruby, Rails, Javascript, React, Node.js, Express, Git, JQuery, MySQL, Postgres, SQlite, HTML, CSS, Linux, OSX, Windows, Rspec, Capistrano, Bourbon Suite, JIRA, Heroku, Deployment, Bootstrap
Some experience with: Python, C++, Java

Experience

2015-present
Application Developer *at the Linguistic Data Consortium (previously "Programmer")*
- Co-created a Rails 5.1 application for creating games for data collection (gamification).
- Developed new functionality for our Ruby on Rails applications, used for annotation, workflow management, and various other tasks.
- Improved existing functionality, added significant testing suite, and fixed a large number of bugs.
- Worked extensively on our Rails 4 application for creating and operating web-based annotation tools.
- Worked on projects to collect, convert, annotate, translate, and release language data, including LORELEI, DEFT, CACE, and GRID.
- Wrote many libraries and scripts for processing linguistic data, database management, reporting, and workflow management.

Prior to 2015
Work prior to 2015 includes freelance development, real estate management, and finance.

Education

2009
B.A. Philosophy, University of Southern California
Significant coursework in math, engineering, computer science, and game development also completed
2012-present
Coursera: Machine Learning by Stanford University, Introduction to Python by Rice University
Udemy: Javascript: Understanding the Weird Parts, The Complete Node.js Developer Course, The Complete React Web Developer Course

Other development and programming courses completed during personal study at Udemy, Udacity, Coursera, Codecademy, and Rubymonks.

Current Applications

2017-present

Language Game Application

A Rails 5.1 application for hosting and developing games created by researchers around the world.

2015-present

WebAnn

A web annotation and workflow management tool used by the Linguistic Data Consortium (Ruby on Rails, JS).

2015-present

WebCol

A web collection tool (Python) for finding, downloading and converting a large quantity of language data from multiple sources.

Provided key development for collecting and processing web data.

2016-Present

LDC Web Catalog

Consulted for maintenance/development on this web application for membership and corpus sales and management. Essential to the LDC's business, this is an e-commerce application built using Spree.

Current Projects

2015-present

Multiple Data Collection and Annotation projects

Collected raw language data via web scraping using LDC's Webcol, Diffbot, and other tools.

Converted collected web data to usable XML formats for use by the LDC and sponsors.

Performed significant amounts of data processing, pipeline management, and database management to facilitate processing of documents and workflow management for annotation, translation, and data releases.

Managed and tracked data via MySQL and Postgresql databases for the project, tracking relevant information on individual documents.

Performed miscellaneous transformations, analysis, and data gathering on data and databases as requested and required for the project.