

Alex Shelmire

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Github: shelmire (private repos, code sample available on request)

Skills

Full-stack web development, data collection, database management, data processing

Current techs: Ruby, Python, Rails, Javascript, React, Redux, Jest, Node.js, Machine Learning, Regression, Deep Neural Networks, CNNs, RNNs, Express, Git, JQuery, MySQL, Postgres, SQLite, HTML, CSS, Linux, OSX, Windows, Rspec, Capistrano, Bourbon Suite, JIRA, Heroku, Deployment, Bootstrap

Experience

2018-present

Founder at Bizzish

- Created a Ruby on Rails 5.2 application using React 16 and Redux for workflow management
- Created user stories, wrote and developed new requirements, frontend, backend, deployment, and more.

2015-present

Application Developer at the Linguistic Data Consortium (previously "Programmer")

- Created a Rails 5.1 application for creating games for data collection (gamification).
- Developed new functionality and maintained old functionality for our Ruby on Rails applications, used for text, image, video, and audio annotation, workflow management, and various other tasks.
- Added significant testing suite, and fixed a large number of bugs.
- Worked extensively on our Rails 4 application for creating web-based data annotation tools.
- Worked on projects to collect, convert, annotate, translate, and release language data, including LORELEI, DEFT, CACE, and AIDA.
- Wrote many libraries and scripts for processing linguistic data, database management, reporting, pipeline engineering, and workflow management.

Education

2018

Deep Learning Specialization

Completed Andrew Ng's Coursera specialization on Deep Learning, CNNs, RNNs

Machine Learning

Completed Andrew Ng's Machine Learning Course

2009

B.A. Philosophy, University of Southern California

Significant coursework in math, engineering, computer science, and game development also completed

Current Applications

2018-present

Bizzish

A React and Rails 5.2 workflow management and communication platform.

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.