

Ryan Larson

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Austin, Texas 78704

Education

University of Iowa

08/2013 – 05/2017

MAJOR Bachelor of Arts (B.A.) in Informatics

Iowa City, IA

MINOR Computer Science, Psychology

Published Work

- CarSentoGram: Geovisual Text Analytics for Exploring Spatiotemporal Variation in Public Discourse on Twitter. C. Koylu & R. Larson et al. (2018), *Cartography and Geographic Information Science, Volume 46 (1)* [Link](#)

Experience

Software Developer

12/2018 – Ongoing

FREELANCE

Austin, TX

- DROPBOX
 - Identified high-profile opportunity to maximize efficiency by creating tool to automate analytic process, saving users 4 hours/week.
 - Elicited clear, traceable requirements using business process descriptions, use case scenarios, and workflow analysis for 80+ people.
 - Iterated with end-users to validate design decisions and functionality (drag and drop, filtering, data transformations) from start to finish.
 - Project won *Longest Outstanding Issue Fixed* during Dropbox's 2019 Hack Week.
- ROSEN BAGELS
 - Saved company 10 hours per week by creating a cloud based order management system. (TypeScript)
 - Application features include production-quality label creation, Google Drive/Forms/Scripts API intergration, and validation.
 - Used existing platforms and branding to provide low cost, impactful solution optimal to small team needs.

Software Developer

03/2018 – 10/2018

COLLEGE OF PUBLIC HEALTH, UNIVERSITY OF IOWA

Iowa City, IA

- Pitched, planned, and programmed *CPHB-Events*, a full stack web application used daily at Co. of Public Health. Increased IT dept efficiency 12.5% by automating event scheduling and management. (NodeJS, AWS)
 - *CPHB-Events* features include interactive floorplan visualizations, form validation, and data-rich interfaces. (React, Redux)
 - Created 20+ wireframes and site components for consistent look and feel.
 - Built RESTful backend for application by integrating 7 external APIs and serving 4 NoSQL tables. (Express, DynamoDB, OAuth2)
 - Deployed using serverless technologies; configured cookie/DNS cache invalidation, test suites, and automatic database backups. (Code-Build, Mocha, DynamoDB)

Data Science Research Assistant

02/2017 – 07/2018

UNIVERSITY OF IOWA INFORMATICS INITIATIVE

Iowa City, IA

- Designed and created a visual analytics dashboard to explore variation on Twitter over time. Article selected for cover of *Cartography and Geographic Information Science Vol. 46*. (React, D3.js)
- Investigated abnormal tweets (72mil) in response to the Immigration Ban through topic and language modeling. (Pandas, Gensim, NLTK)
- Facilitated research within cross-functional team by standardizing environments, building data pipelines, and automating experiments. (Make, Anaconda, PostgreSQL)

Skills

Programming Languages

JavaScript (JS), Python, TypeScript, HTML/CSS, SQL, Bash

Methods

Information Visualization, Web Development, User Experience (UX), Rapid Prototyping, Agile, Version Control

Software

D3.js, React, Redux, Express, NodeJS, MongoDB, PostgreSQL, Mocha, Jest, Adobe Creative Suite, Git

Projects

Higher Knowledge Graph

An interactive graph explorer for college courses. (React, D3.js, NodeJS)

[Link](#)

Politiweets

Identified bot networks pushing disinformation during the 2016 Presidential Election. (Pandas, Jupyter)

[Link](#)

GeoVisualization

Geographic visualizations of GPX running traces, viewsheds, and location data.

[Link](#)