Ryan **Larson**

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Austin, Texas 78705

Education

University of Iowa   *Aug. 2013 – May 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   *Link*
al. (2018), *Cartography and Geographic Information Science, Volume 46*.

Experience

Freelance Software Developer   *Dec. 2018 – Ongoing*

• DROPBOX

  – Identified high-profile opportunity to maximize efficiency by creating tool to automate analytic process, saving users 4 hours/week.
  – 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.

• COLLEGE OF PUBLIC HEALTH

  – Pitched, planned, and programmed *CPHB-Events*, a full stack web application used daily at Co. of Public Health. (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.

• INTERNATIONAL WRITERS PROGRAM

  – Developed web maps for an international audience, closing the gap from user's intent to outcome.
  – Communicated central narrative, ensuring the message fit organizational values.

Data Science Research Assistant   *Feb. 2017 – July 2018*

UNIVERSITY OF IOWA INFORMATICS INITIATIVE   *Iowa City, IA*

• Produced all graphics for Article selected for cover of *Cartography and Geographic Information Science Vol. 46*. (React, D3.js)
• 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)
• Collaborated with domain experts to extract insights from 72 million tweets using topic and language modeling. (Pandas, Gensim, NLTK).
• Scraped and manipulated data from a variety of online sources. (Twitter, maps, Census data)

Data Journalist   *Sep. – Jan. 2016*

DAILY IOWAN   *Iowa City, IA*

• Published 4 monthly print and web projects for the Daily Iowan.
• Extracted compelling stories from data by collaborating with reporters.
• Advised on charting conventions and coding best practices in the newsroom.

Data Visualization Intern   *June – Aug. 2016*

ACT   *Iowa City, IA*

• Created interactive web experiences for users, using machine learning models to provide informed recommendations.
• Maximized chart comprehension by conducting A/B testing with users.

Skills

Programming   JavaScript, Python, TypeScript, HTML/CSS, SQL, Bash, MAKE
Tools   Tableau, Adobe Illustrator, QGIS, ArcGIS, Figma, Git
Libraries   D3.js, React, Redux, Express, NodeJS, MongoDB, PostgreSQL, Jest, Jupyter, NumPy, Pandas

Projects

Politiweets   Identified bot networks pushing disinformation during the 2016 Presidential Election. (Pandas, Jupyter)   *Link*
Higher Knowledge Graph   An interactive graph explorer for college courses. (React, D3.js, NodeJS)   *Link*
GeoVisualization   Geographic visualizations of GPX running traces, viewsheds, and location data.   *Link*