

# SARA HUTCHINSON

## GIS Developer

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## SKILLS

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**Front End:** Bootstrap, CSS, Handlebars.js, HTML5, JavaScript, jQuery, Leaflet.js

**Back End:** Express.js, MongoDB, Node.js, PostgreSQL, Python, Ruby on Rails, SQL

**GIS & Data Visualization:** ArcGIS Desktop, ArcGIS Online, ArcPy, Spatial Analyst, Network Analyst, Terrset, Species Distribution Modeling (SDM), QGIS

**Other:** Git/Github, Microsoft Office, Conversational Spanish

## EXPERIENCE

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### Web Development Immersive Program

March 2018 – June 2018

*General Assembly, Boston, MA*

- Completed a 12-week intensive web development program and developed three full-stack web applications:
  - Boston Crime Tracker:** An application used to visualize Boston crime data on a Leaflet web map. Users can sign in, report a crime, and add incident information into a database.
  - Survey Devil:** A survey application used to create and take surveys. Application developed using Ruby on Rails.
  - Massachusetts Endangered Species Tracker:** An application used to track endangered species in Massachusetts.

### GIS Analyst Contractor

April 2017 – March 2018

*Massachusetts Department of State Police, Commonwealth Fusion Center, Maynard, MA*

- Held an interim secret clearance from the Department of Homeland Security (DHS).
- Worked with law-enforcement sensitive data for public safety planning throughout the Commonwealth.
- Consolidated and analyzed opioid overdose data at the town/city level for Massachusetts.
- Assisted with GIS public safety requests including: case support, event planning, and networking with state agencies.
- Represented the Commonwealth Fusion Center at the 2017 Esri GIS User Conference.

### Conservation GIS Intern

November 2014 – June 2015

*Greater Worcester Land Trust, Worcester, MA*

- Worked with the Executive Director on a Conservation Partnership Grant application.
- Assisted with mapping projects in Worcester with a focus on conservation.
- Applied GIS knowledge to preserve land and protected species in Worcester County.

## GIS RESEARCH & PROJECTS

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|--|---------------|
| Mapping Opioid Overdose Data and Heroin Prices in Massachusetts                        | 2017          |
| Mapping Elephant Movement and Community Livelihoods in the Tarangire-Manyara Ecosystem | August 2016   |
| Batch Processing of Vegetation Indices: GUI Development for Rasters using ArcPy        | December 2015 |
| Opportunities for Urban Agriculture: Creating a Spatial Database for Worcester         | February 2015 |

## EDUCATION

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**Master of Arts, Community Development and Planning, with a focus on GIS**

August 2016

*Clark University, Worcester, MA*

**Bachelor of Arts, International Development and Social Change**

May 2014

*Clark University, Worcester, MA*

Cum Laude