SARA HUTCHINSON

GIS Developer

hutchinsonGIS.com

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SKILLS

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

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

- 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

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