



JAMES RAINES

FULL-STACK DEVELOPER

HELLO!

MY NAME IS JAMES RAINES - I AM A FULL STACK DEVELOPER AND GEOSPATIAL PROFESSIONAL. I LEAD DEVELOPMENT IN RISK ASSESSMENT FOR FEMA HQ AND LOVE EXPLORING AND BUILDING OPEN-SOURCE TOOLS.

EDUCATION

MASTER OF GEOSPATIAL SCIENCE, 4.0

2018

Programming | RDBMS | GIS | Spatial Statistics | Remote Sensing
Gamma Theta Upsilon - International Geography Honor Society
CLAS Dean's Advisory Council - GES Graduate Representative
STEM accredited Professional Science Master's degree (PSM)

BACHELOR OF GEOGRAPHY

2015

GIS | Statistics | Environmental Science | Social Science
Research Assistant - Conservation GIS for Andean Cloud Forest

EXPERIENCE

GEOSPATIAL DEVELOPER—FEMA

09/18 - PRESENT

- Managed the development of scientific web and desktop applications for natural disaster risk analysis.
- Architected SaaS web platforms for hazard modeling. Implemented frontend design in Angular and backend REST APIs using Django with a PostgreSQL database.
- Lead development of a risk modeling Python library used in a suite of desktop utilities. Ancillary stack included SQL Server, SQLite, and C#.

GIS & WEB DEVELOPER—NATIONAL PARK SERVICE

12/17 - 09/18

- Developed and designed a suite of Angular components for nps.gov, NPS map builder application, and park asset management.
- Implemented REST services using Node.js and collaborated on REST microservices using .NET CORE with a SQL Server database.
- Built a library of geospatial common models and class definitions using Leaflet.js.

GEOSPATIAL RESEARCHER—US GEOLOGICAL SURVEY

01/17 - 01/18

- Provided habitat change research for the monarch butterfly.
- Performed maximum entropy modeling for habitat delineation in R and Python.

TEACHING ASSISTANT—UNIVERSITY OF COLORADO DENVER

11/16 - 05/17

- Courses taught: GEOG 4081/5081 Cartography; GEOG 4080/5080 GIS
- Developed course material, administered lectures, and tutoring

TRANSPORTATION PLANNING INTERN—CITY OF DENVER

09/16 - 04/17

PROGRAM COORDINATOR—CENTRAL TEXAS FOOD BANK

09/15 - 06/16

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<https://github.com/lorax521>

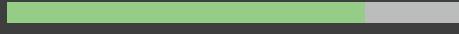
SKILLS

FRONT END

Angular



React & Redux

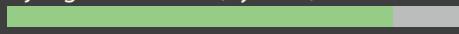


HTML & CSS



BACK END

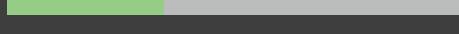
Django and Flask (Python)



Express/Node.js (JavaScript)

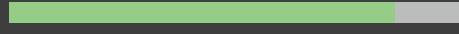


.NET Core (C#)



DATABASES

PostgreSQL & PostGIS



SQL Server & SQL Server Spatial

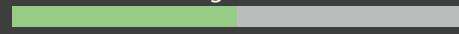


MongoDB (NoSQL)



DATA SCIENCE & SPATIAL ANALYTICS

Machine Learning



GIS



+ Git, Docker, AWS, Agile