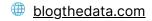
# **JOHN SOLLY**

isolly@pm.me

**\** 279.321.2870



P Redlands, CA

### PROFESSIONAL EXPERIENCE

#### Senior Geospatial Developer, University of Maryland

Sept 2022 — Present

- Mentor an agile team of four engineers, providing technical guidance and helping grow their technical skills.
- Architect ETL pipelines for loading, analyzing, and retrieving 300TB+ of COG and ZARR data into decentralized storage systems and databases.
- Design open-source APIs and libraries to expose geospatial data to front-end web clients and desktop GIS applications (QGIS and ArcPro).
- Author dozens of tutorial Python Jupyter notebooks to educate developer audiences on the functionality of our geospatial tools.

## Integration Consultant, YellowfinBl

May 2021 — Feb 2022

- Designed innovative data solutions using Yellowfin's REST, SOAP, and JavaScript APIs for Yellowfin's largest clients.
- Troubleshoot and resolve complex L3 production issues within cloud, on-prem, and hybrid infrastructure (Proxies, Docker, K8, Load Balancers).

## **Product Engineer, Esri | ArcGIS Dashboards**

May 2017 — May 2021

- Created automated regression testing harness for a JavaScript-based web application using Python, Selenium, Docker, and Jenkins revealing hundreds of defects. Reduced manual testing from 240 to 100 hours each quarter for offshore testing teams.
- Managed numerous Dashboard releases as the Release Coordinator, ensuring high quality releases with no production hotfixes over four years.

#### **EDUCATION**

**Computer Science, Bachelors of Science** 

**Graduating 2027** 

Open Source Society University (OSSU)

Geospatial Intelligence, Masters of Science

Sept 2015 — May 2017

George Mason University, GPA 3.93

**Geoinformation Science, Bachelors of Arts** 

University of California, Santa Barbara, GPA 3.85

Sept 2013 — May 2015

#### **OPEN-SOURCE PROJECTS**

- **Blogthedata.com** (2021 to Present) A Django blogging platform with user authentication, SEO optimization, and clean, maintainable code exceeding 95% test coverage.
- **GeoAsteroids.com** (2022 to Present): A modern take on the classic Atari Asteroids game using TypeScript, HTML Canvas, and MongoDB. Leveraged CI/CD pipelines for automated testing and deployment.

## **SKILL HIGHLIGHTS**

Python | TypeScript | Django | React | Svelte | Functional Programming | Docker Compose Serverless | Terraform | SQL/NoSQL | PostGIS | GeoPandas | Dask | Apache | Cloudflare | LLMs