




JOHN SOLLY

 jsolly@pm.me

 279.321.2870

 blogthedata.com

 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, YellowfinBI 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 Sept 2013 — May 2015 University of California, Santa Barbara, GPA 3.85

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