




# JOHN SOLLY

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 279.321.2870

 [blogthedata.com](https://blogthedata.com)

 Redlands, CA

## PROFESSIONAL EXPERIENCE

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### 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

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### 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

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- **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

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Python | TypeScript | Django | React | Svelte | Docker Compose | Serverless | Terraform/Ansible  
SQL/NoSQL | PostGIS | GeoPandas | Dask | Apache | Cloudflare | LLMs | CI/CD | GitHub Actions |  
Jenkins | Vite | Test-driven Development | Functional Programming