

---

# JOHN SOLLY

✉ [jsolly@pm.me](mailto:jsolly@pm.me)

☎ 279.321.2870

📍 Redlands, CA.

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

---

## PROFESSIONAL EXPERIENCE

**SENIOR GEOSPATIAL DEVELOPER** | University of Maryland *Sept 2022 to Present*

- Mentor an agile team of four junior 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 to 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 *May 2017 to 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.

---

## 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.

---

## EDUCATION

**COMPUTER SCIENCE (B.S. Equivalent)** *Graduating Spring 2027*  
Open Source Society University (OSSU) *[github.com/ossu/computer-science](https://github.com/ossu/computer-science)*

**M.S. GEOINFORMATICS AND GEOSPATIAL INTELLIGENCE** *May 2017*  
George Mason University, GPA 3.93 *Fairfax, VA*

**B.A. GEOGRAPHY (GIS & REMOTE SENSING EMPHASIS)** *May 2015*  
University of California, Santa Barbara, GPA 3.85 *Santa Barbara, CA*

---

## Skills

Python | TypeScript | SQL | Django | GDAL | PostGIS | GeoPandas | Docker | Mapbox GL