
JOHN SOLLY

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📍 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)

Open Source Society University (OSSU)

Graduating Spring 2027

github.com/ossu/computer-science

M.S. GEOINFORMATICS AND GEOSPATIAL INTELLIGENCE

George Mason University, GPA 3.93

May 2017

Fairfax, VA

B.A. GEOGRAPHY (GIS & REMOTE SENSING EMPHASIS)

University of California, Santa Barbara, GPA 3.85

May 2015

Santa Barbara, CA

Skills

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