**JOHN SOLLY**

Shape

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Description automatically generated with low confidence jsolly@pm.me 279.321.2870 Redlands, CA. Blogthedata.com

**PROFESSIONAL EXPERIENCE**

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

* Architect ETL pipelines for loading, analyzing, and retrieving 300TB+ of COG and ZARR data into decentralized storage systems and databases.
* Develop open-source APIs and libraries 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.
* Build dynamic cache and retrieval methods for optimized hot/cold layers to save on infrastructure costs and energy use.

**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).
* Authored best practices consultant playbook for Yellowfin's on-prem deployments.

**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 fully-featured Django blogging platform.
* **GeoAsteroids.com (2022 to Present):** A unique twist on the classic Atari Asteroids game, developed in TypeScript.

**EDUCATION**

**COMPUTER SCIENCE (B.S. Equivalent)** *Graduating Spring 2027*

Open Source Society University (OSSU)*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