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# JOHN SOLLY

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📍 Redlands, CA.

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

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## PROFESSIONAL EXPERIENCE

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

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## OPEN-SOURCE PROJECTS

- [Blogthedata.com](https://blogthedata.com) (2021 to Present) A Django blogging platform with user authentication, SEO optimization, and clean, maintainable code exceeding 95% test coverage.
- [GeoAsteroids.com](https://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.

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## EDUCATION

**COMPUTER SCIENCE (B.S. Equivalent)**

Open Source Society University (OSSU)

*Graduating Spring 2027*

*[github.com/ossu/computer-science](https://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*

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## Skills

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