JOHN SOLLY

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PROFESSIONAL EXPERIENCE

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

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

- **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.

SKILLS

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