JOHN SOLLY

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PROFESSIONAL EXPERIENCE

SENIOR GEOSPATIAL DEVELOPER   *Sept 2022 to Present*
University of Maryland   *College Park, MD*

- Architect data pipelines for loading, analyzing, and retrieving 300TB+ of cloud-optimized, geospatial data into decentralized storage systems and databases.
- Develop open source APIs and libraries expose geospatial data to a variety of clients, including front-end web applications 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   *May 2021 to Feb 2022*
Yellowfin Business Intelligence   *Boise, ID*

- Design 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).
- Author internal consultant playbook covering best practices for Yellowfin's on-prem deployments.

PRODUCT ENGINEER | Esri   *May 2017 to May 2021*

- Create automated regression testing harness with hundreds of tests for a JavaScript-based web application using Python, Selenium, Docker, and Jenkins.

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, integrating GIS concepts into a dynamic, interactive web game written in pure 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 | ArcGIS | Mapbox | QGIS