

# JOHN SOLLY

Senior Geospatial Developer

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## TECHNICAL SKILLS

**Languages:** Python | TypeScript | Golang | SQL/NoSQL | Shell/Bash

**Web Development:** | Apache | Cloudflare | LLMs | CI/CD | GitHub Actions

**DevOps & Cloud:** Docker | Terraform | GitHub Actions | Jenkins | Serverless

**Geospatial:** PostGIS | GeoPandas | GDAL | Dask | ArcPy | Mapbox GL | Turf.js | Leaflet

## 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.
- Gave presentations at Concensus 2023, Compute Over Data summit (2023), available on YouTube

### 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).
- Led the migration of Yellowfin's largest partner to Yellowfin 9, upgrading from a legacy deployment

### 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

Sept 2022 — May 2026

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

- **Awesome Django Blog** (2021 to Present) A blogging platform with user authentication, SEO optimization, and clean, maintainable TDD code with 100% coverage. My personal blog utilizes this platform and is accessible at [blogthedata.com](http://blogthedata.com).
- **GeoAsteroids** (2022 to Present): A modern take on the classic Atari Asteroids game using TypeScript, HTML Canvas, and MongoDB. Leveraged Github Actions CI/CD pipeline for automated testing and deployment. Found at [Geoasteroids.com](http://Geoasteroids.com)