# **JOHN SOLLY**

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Specializing in big data pipeline development and full-stack geospatial web development, I comfortably navigate both open-source and proprietary GIS stacks. Committed to delivering innovative, high-performance geospatial solutions that exceed expectations.

# PROFESSIONAL EXPERIENCE

#### UNIVERSITY OF MARYLAND

College Park, MD

Sept 2022 to Present

SENIOR GEOSPATIAL DEVELOPER

At the EASIER data initiative, I develop infrastructure for efficiently, accessibly, and sustainably onloading, analyzing, and extracting large amounts of geospatial data into blockchain-managed, decentralized storage systems such as Filecoin and IPFS.

- Construct data pipelines for loading, analyzing, and retrieving cloud-optimized, geospatial data from (Filecoin/IPFS) using Shell, RSync, Singularity, and Boost.
- Develop Dockerized RESTful STAC API, TypeScript Client, and QGIS plugin for geospatial data upload and retrieval. E2E applications are based on Landsat 9 and GEDI but are generalizable to any geographic dataset.
- Write tutorial Python Jupyter notebooks to demonstrate functionality. Maps and geospatial analysis with Geopandas, GDAL, and Rasterio. Inline maps and visualizations with Folium and Matplotlib.
- Build dynamic cache and retrieval methods for optimized hot/cold storage.

# YELLOWFIN BUSINESS INTELLIGENCE

Boise, ID

INTEGRATION CONSULTANT

May 2021 to February 2022

Empower developers as a trusted advisor. Offer technical leadership and ownership in post-sales consulting engagements with tier-1 customers, ensuring a successful customer experience.

- Design, develop and integrate innovative data solutions according to stakeholder requirements.
- Aid in complex deployments and act as an escalation point for L3 support tickets.
- Thought leader on best practices in solution and integration development. Prove processes and patterns to be leveraged by Yellowfin consultants, customers, and partners.

**ESRI |** PRODUCT ENGINEER (II)

CENTER FOR LOCATION SCIENCE | RESEARCH AND TA

U.C.S.B COLLEGE OF ENGINEERING | TIER I HELP DESK

May 2017 to May 2021

Sept 2015 to May 2017

Oct 2014 to June 2015

# **OPEN SOURCE PROJECTS**

- **Blogthedata.com (2021 to Present)** A fully featured blogging application written in Django (Python). CI-CD workflow using QA and Dev environments with all code committed to source control and deployed to a Linode cloud server.
- **GeoAsteroids (2022 to Present):** A unique twist on the classic "Asteroids" game, integrating GIS concepts into a dynamic, interactive web game. It's a pure TypeScript application with no front-end frameworks.

# **EDUCATION**

**OPEN SOURCE SOCIETY UNIVERSITY (OSSU)**COMPUTER SCIENCE (B.S. Equivalent)

github.com/ossu/computer-science Graduating Spring 2027

GEORGE MASON UNIVERSITY, GPA 3.93

M.S. GEOINFORMATICS AND GEOSPATIAL INTELLIGENCE

Fairfax, VA May 2017

UNIVERSITY OF CALIFORNIA, SANTA BARBARA, GPA 3.85

Santa Barbara, CA May 2015

B.A. GEOGRAPHY (GIS & REMOTE SENSING EMPHASIS)