
JOHN SOLLY

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A seasoned GeoDev with expertise in proprietary and open-source platforms with a proven track record in technical communication.

PROFESSIONAL EXPERIENCE

UNIVERSITY OF MARYLAND

College Park, MD

SENIOR GEOSPATIAL DEVELOPER

Sept 2022 to Present

I manage a team of two junior developers, and together we 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.

- Architect data pipelines for loading, analyzing, and retrieving 300TB+ of cloud-optimized, geospatial data from blockchain managed decentralized storage systems such as Filecoin and IPFS.
- Develop Dockerized STAC Server using Postgres and FastAPI to expose geospatial data to a variety of clients, including front-end applications, desktop GIS applications, and RESTful APIs.
- Author dozens of technical blog posts and 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.

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 innovative data solutions using Yellowfin's REST, SOAP, and JavaScript APIs for Yellowfin's top clients.
- Act as an escalation point for L3 support tickets. Troubleshoot and resolve high-priority production issues in various deployment types, including cloud, on-prem, and hybrid setups with complex architecture (Proxies, Docker, Load Balancers).
- Create Yellowfin's health check document used by internal and external consultants to assess the 'health' of Yellowfin on-prem deployments objectively. The health check covered optimizations such as database tuning, cache adjustments, and re-writing complex SQL queries. Integrated into Salesforce to empower customer success and improve retention.

ESRI | PRODUCT ENGINEER (II)

May 2017 to May 2021

CENTER FOR LOCATION SCIENCE | RESEARCH AND TA

Sept 2015 to May 2017

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

Oct 2014 to June 2015

OPEN-SOURCE PROJECTS

- **Blogthedata.com (2021 to Present)** A fully featured blogging application written in Django.
 - **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.
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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

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

Santa Barbara, CA

May 2015