John R Hoopes IV

@robisoniv
Full stack web and web3 developer. Visualization designer. Spatial data scientist.
Researcher, writer, photographer. Sailor. Mountaineer.

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EDUCATION

UCL Centre for Advanced Spatial Analysis
MSc, Spatial Data Science and Visualisation

September 2018 - present

Quantitative Methods, Geographic Information Systems, Data Science for
Spatial Systems, Agent-based Modeling for Spatial Systems, Spatial-temporal
Data Mining & Data Analysis, Digital Visualisation.

Tufts University
BSc, Biology, Environmental Studies

August 2006 - May 2010
Neubauer Scholar. Dean's List.

EXPERIENCE

One Earth Future, Colorado.

November 2016 - August 2018

Stable Seas - Project Coordinator for Data Products, Research Assistant.
Designed and developed interactive data visualization for the Stable Seas
Maritime Security Index at stableseas.org. Adopted by military, government,
commercial and academic stakeholder in Africa / Indian Ocean region.

Oceans Beyond Piracy - Research Assistant.
Co-authored 2016 State of Maritime Piracy report. Led analysis of AIS data to
calculate economic costs of piracy.

Tech Startup Industry, Boston, Denver, London.

October 2010 - present

London Blockchain Labs - Project Manager, Engineer Level 1.
Completed Engineer Level 1 Fast Track curriculum on cryptography and
Ethereum smart contract development. Managed technical Labs team
including the Sovereign Project hackathon team.

Junctions, Inc. - Co-founder, Product Lead.
Designed and managed mobile product from concept to prototype; negotiated
and secured $50,000 seed investment.

Signdealz - Contract Technical Project Manager
Led operationalization of business processes and business plan feasibility
assessments for Signdealz, a disruptive technical construction startup while
managing over $1M in projects.

SKILLS

JavaScript: D3.js, Node,
jQuery, Bootstrap,
Web3.js, mapbox-gl.

Python: pandas /
geopandas, scikit-learn,
beautifulsoup / selenium,
matplotlib, ipython.

Bash. C++. SQL. Solidity.
NetLogo. R. Git. GDAL.

Adobe CS. QGIS.

CERTIFICATIONS

Trained: Emergency
Medical Technician,
Outdoor Emergency Care
Technician, CPR.

LANGUAGES

Spanish - competent.

French - functional.

Travel + Outdoor Industry, Worldwide.

April 2012 - August 2016

Freelance - Travel journalist.
Contributed original writing and photography for various publications including SAIL Magazine and The Inertia.

Backroads - Trip Leader.
Led over 350 guests on over 25 active travel expeditions in Croatia, France and the US representing $1.25M worth of product.

Ski Granby Ranch - Alpine Patroller.

National Ski Patrol - Member, 2004 - present. Emergency Medical Technician and Outdoor Emergency Care trained.

Mountains

Mount Rainier via Emmons-Winthrop Glacier, 2013.

Telluride Ride: 700 miles by bicycle from La Veta, CO to Price, UT. 2013.

Aconcagua via Polish Traverse. Attempted 2009.

35 of 54 Colorado 14ers summited since 1999.

Oceans

Atlantic Ocean, Gran Canaria to Saint Lucia. 2013.

Cruise Dalmatia on assignment for SAIL Magazine. 2014.

~10,000 nautical miles sailed since 2009.

EVENTS, PROJECTS + PUBLICATIONS

Blockchain

Sovereign Project — Team Lead, Future of Blockchain 2019.
Contracts to deploy a dApp to store and manage a collaborative project's informational and financial assets on the EVM.

Topo.sol — Solo Hacker, ETHParis 2019
A spatial abstraction library in Solidity for use in smart contracts.

Spatial

The Patterns of War - Quantitative Methods, UCL.
A fatality-weighted spatio-temporal KMeans clustering analysis of conflict events in Yemen, 2016-2018.

The Snows of Mont Blanc - GIS, Tufts University.
A raster imagery analysis of summer snow cover change over 25 years on the Mont Blanc massif.

Papers

Oceans Beyond Piracy. *State of Maritime Piracy 2016* - Co-author.

Fisheries Conflict Research Consortium. *Climate change increases the risk of fisheries conflict* - Co-author.

Events

Our Ocean Conference 2017. Stable Seas Launch. Youth Delegate, Sustainable Ocean Alliance.

World Ocean Summit 2018. Young Ocean Leader, Sustainable Ocean Alliance.

Blockchain in the Digital Economy 2019 - Hyperledger Workshop facilitator.

KCL Starter Weekend - Solidity Crash Course Workshop lead.

ETHParis 2019, ETHDenver 2018 - Solo hacker.

Denver Data Storytellers - Behind The Design - Presenter, April 2018.

Telluride Mountainfilm - Correspondent, The Inertia Mountain, 2015 + 2016.

Global Blockchain Summit 2018; CryptoRisk Conference 2019; CC Forum 2018 - attendee.

Boulder Film Festival - Volunteer, VR Pavilion, 2017.

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