John Robison

Technology | Research | Business

Summary

I am an analytical thinker who works to formulate and erect technologies that align with human needs and values to solve difficult and meaningful problems. I thrive on thinking in a contrarian manner and relying on first principles to derive truth using a rigorous, scientific methodology.

Skills and Technologies

Skills: Mathematical and Statistical Analysis, Economic and Financial Modeling, Project Management, Technical Writing, Business Modeling and Strategy, Algorithms and Data Structures, Systems Architecture, Machine Learning, Blockchain Technology.
Technologies: Python, SQL, Matlab, JavaScript, HTML, CSS, Ruby on Rails, React.js, Node.js, Git and Github, MongoDB, React-Bootstrap.

Engineering Projects

Velocity: Front-end web application which employed the LunarCrush API to source financial and social data for crypto assets. Built Key Performance Indicators for social and financial data to help analysts determine which assets are intrinsic value investments for long-term wealth creation.
Community Table: Full-stack web application for food vendors to store inventory data; application ran a novel algorithm based on tax law and probability theory to filter the inventory to determine whether it was more optimal to store or donate, given price and expiration data.
Drone Wars: Built mathematical models to optimize the number, type, and relative positioning of drones to combat wildfires in Australia, given specific budget constraints.

Work Experience

Research Associate Remote (Online)
Blockchain Research Institute May 2021 - Present
The Blockchain Research Institute is the leading global think tank on blockchain technology.

- Writing a research paper on the key applications of Defi which is intended for C-Suite executives; will present findings at the 2021 fall conference for Defi hosted by the BRI.
- Building out the database and associated statistical models for a joint research venture exploring how governance impacts long-term value creation for blockchain organizations.

Student Researcher Remote (Online)
NASA Goddard Space and Flight Center (Cryospheric Sciences) May 2020 - August 2020
NASA's mission is to pioneer the future in space exploration, scientific discovery, and aeronautics research.

- Employed methods in statistical machine learning to identify significant error clusters between ICESat-2's laser altimeter measurements and Globe's smartphone observations.
- Presented findings to senior scientists to demonstrate how the ICEASat-2 and Globe teams could serve as collaborative stakeholders to further NASA's larger mission.

Education

Columbia University, New York, NY
B.A. Mathematics and Statistics, Expected December 2021
Honors: Dean's List, Departmental Honors in German, Eastern Sprints Champion (Rowing)
General Assembly, Remote (online)
Certificate: Software Engineering Immersive