



HPC in the City: *St. Louis* HACKATHON

A large, green, stylized outline of the St. Louis Arch, which serves as a background element for the main title.

IoT Blockchain Smart City

Project Name

- **Agbeli Ameko & Dr. Keith Maul**
 - UCAR/NCAR
- **Idea:** Blockchain enabled IoT weather and Smart City network
- **St. Louis Impact:**
 - Encourage local community to add their IoT devices to a local Smart City network via the blockchain that is free from Big Tech
- **Possible HPC Resources:**
- **Possible Languages:** python, sql



St. Louis Blockchain Enabled IoT Smart City

Infrastructure

Part of team will implement blockchain for IoT weather measurement in St. Louis

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Now create system for citizen scientist/users to add to network

Data Producers

Existing data: realtime IoT weather data on the blockchain to enable smart weather applications

Data Consumers

Why: building smart weather applications for smart city DAPPS

Need and Motivation

To incentivize or create market for Citizen scientist, commercial, and industrial users in St. Louis to contribute its data and sensors to a decentralized smart city network

Data sovereignty: community is in control to verify, duplicate, and validate data setting system free from the BIG 5 Tech cartel

Smart Contract/Incentives

...Some kind of Coin, ranking, or "credit" based on contribution to IoT smart city network

Development Cycle and timeline

