
Frax Finance

October 2023 – present

Senior Smart Contract Engineer

- Lead engineer for the multichain strategy in partnership with LayerZero, bridging over \$10M in Frax assets in 2024.
- Lead engineer for the FXB (RWA) protocol, which auctioned over \$10M worth of tokens in several months.
- Core engineer for BAMB, an industry-first perpetual “Borrowers AMM” based on the Uniswap constant product formula.
- Contributing to high value open-source protocols to further Layer 2 development.
- **Topics:** DeFi, AMMs, Bridging and Layer 2, Communication

Velodrome / Aerodrome

September 2022 – September 2023

Core Smart Contract Engineer

- Co-authored and deployed the largest Layer 2 DEX to migrate over \$100M TVL and hold over \$1B TVL.
- Worked alongside senior smart contract developers in implementing innovative and efficient functionality, including NFT mechanics never before seen in the industry.
- Wrote sufficient unit, integration, end to end, and fuzzing test coverage in Foundry with test deployments in Tenderly.
- **Topics:** DeFi, AMMs, Governance, Linux, Smart Contract Auditing, Tenderly

meTokens

February 2021 – September 2022

Core Smart Contract Engineer

- Designed, programmed, and deployed a 0-to-1 protocol.
- Led in delegation and management of code changes in a test-driven environment.
- Codebase utilizes EIP-2535 and Bancor formula, testing coverage in Hardhat (Typescript).
- **Topics:** Bonding Curves, GraphQL, Upgradeable Proxies, Protocol Design & Architecture, Team Management

RaidGuild

November 2020 - present

Internal Smart Contract Auditor & DAO member

- Provide code auditing services and smart contract advisory for Raid Guild clients.
- Notable audits include: valorem.xyz, metastreet.xyz, metl.co.
- **Topics:** Smart Contract Auditing, Client Communication

Consensys Diligence

June 2020 – October 2020

Security Researcher Intern

- Wrote the Consensys Diligence weekly newsletter with Senior Security Researchers.
- Observed and learned how to perform formal code audits from start to finish.
- **Topics:** Smart Contract Auditing

AllThingsTA!

July 2018 - July 2019

Data Scientist

- Reverse-engineered, backtested, and automated a cryptocurrency trading strategy of a successful cryptocurrency trader for a trading group of over 100 members.
- Earned over 25 Bitcoin in subscription revenue from users.
- Strategy was completed using Python and utilized Linear Regression and Decision Tree feature selection.
- **Topics:** Python, Data Science, Automation, Quantitative Trading

Northwestern University

July 2018 - July 2019

Data Science Teaching Assistant

- Teaching Assistant of a Data Science bootcamp offered by Northwestern University for two semesters.
- **Topics:** Data Science, Flask, SQL, Javascript, Communication

Indiana University

August 2013 - May 2017

Bachelors of Science in Management