

Mitchell Marfinetz

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[GitHub](#) | [ePortfolio](#) | [Dune](#) | [Topology](#)

Objective

A skilled and driven professional with experience in business development, community management, on-chain analytics, and research in the crypto, web3, and tech industries. Proficient in various programming languages and tools, with a strong focus on blockchain technology and decentralized finance. Currently researching and developing decentralized technical bridge solutions between Bitcoin and Ethereum networks.

Education

MIT Professional Education (2022)

Certificate in Applied Data Science with a focus on Deep Learning

Key Coursework: Neural Networks, Machine Learning, Data Analysis, Deep Learning Applications

Udacity (2023)

Blockchain Developer Nanodegree

Key Coursework: Smart Contracts, DApp Development, Blockchain Architecture

Alchemy University (2023)

Ethereum Developer Bootcamp

Key Coursework: Solidity, Web3.js, Smart Contract Security

Kent State University (2020-2024)

Bachelor of Business Administration

Major: Computer Information Science

Key Coursework: Data Structures, Algorithms, Database Management

Course Projects

▼ View Course Projects

- Building a recommendation system to recommend the best Amazon products to users (MAR 2022)
- Recognizing house number digits from street view images using Neural Networks (MAR 2022)
- Predicting the conversion of leads to customers (MAR 2022)
- Predicting house prices in Boston and predicting hotel bookings cancellations (FEB 2022)
- Applying dimensionality reduction on the Auto-mpg dataset and segmenting bank customers (FEB 2022)
- Analyzing the marketing campaigns to help CMO devise the next strategy (FEB 2022)

Udacity

Blockchain Developer program

Alchemy University

Ethereum Developer Bootcamp

Kent State University, Kent, Ohio

Bachelors of Business Administration, Major: Computer Information Science

Experience

Integral (March 2022 - Present)

Business Development, Community Management, and Research

- Led community engagement initiatives resulting in 40% growth in active users
- Conducted in-depth research on DeFi protocols and market trends using on-chain data
- Developed and maintained relationships with 20+ key protocol partners
- Created weekly analytics reports tracking protocol metrics and user behavior
- Technologies used: SQL, Python, Dune Analytics, Etherscan, Discord

Lakeshore Country Club (October 2021 - March 2022), Erie, PA

Event Team Member

Orchestrated large events such as weddings and banquets, demonstrating strong teamwork skills.

Waldameer & Water World (June 2019- September 2020), Erie, PA

Lifeguard

Enforced facility safety protocols and provided lifeguarding services.

Giant Eagle (October 2018-June 2019), Girard, PA

Customer Service Representative

Implemented customer service skills to assist customers with needs.

Discord Moderator (September 2021 - March 2022), Stratton Dogemont & CybonixNFT

Moderated large online communities and ensured respectful communication.

Technical Projects

Bitcoin-Ethereum Bridge Research (Current)

- Researching and developing decentralized bridge architecture between Bitcoin and Ethereum networks
- Focusing on trustless cross-chain communication and asset transfer mechanisms
- Analyzing existing bridge solutions and their security implications
- Technologies: Bitcoin Script, Ethereum Smart Contracts, Cross-chain Protocols

MEV-Searcher (Current)

- Developing a sophisticated arbitrage bot to identify and capture MEV opportunities
- Implemented efficient mempool monitoring and transaction simulation
- Built custom analytics dashboard for monitoring opportunities
- Technologies: Python, Web3.py, Ethereum JSON-RPC, Flash Loans

Blockchain Implementation

- Built a proof-of-work blockchain implementation in Python
- Implemented core features including mining, transaction validation, and consensus
- Applied machine learning for transaction pattern analysis
- Technologies: Python, SHA-256, Merkle Trees, SQLite

Caffeine Consumption and Academic Performance Study

Lead an in-depth, independent research project analyzing the influence of caffeine consumption on student study habits and academic performance. Gathered and interpreted a comprehensive set of data using rigorous scientific methodologies. Findings contributed to a better understanding of the relationship between dietary stimulants and cognitive function, potentially informing improved study techniques and student wellness strategies.

Skills

Soft Skills

- Active listener
- Adaptability
- Fast learner
- Persistent

Technical Skills

- **Advanced:** SQL, Python, On-Chain Analytics
- **Intermediate:** JavaScript, Solidity, Git
- **Familiar:** Web3.js, Ethers.js, Hardhat

Blockchain & DeFi

- DeFi Protocols & Mechanisms
- Token Economics
- Smart Contract Development
- MEV & Trading Strategies
- Layer 1/2 Solutions

Honors

- National Honors Society
- Dean's List, Fall 2020

Community Service/Volunteer Experience

Camp Sherwin, Girard, PA: 20 hours of volunteer work.

Girard Highschool: 10 hours of tutoring students on various subjects.

Girard Borough, Girard, PA: 20 hours of volunteer work including trash pickup and landscaping.

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