Henry Frederick

http://hyf.one

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SKILLS

- **Languages**: Typescript, Python, Solidity, Yul, Ruby, Bash
- **Technologies**: AWS, PostgreSQL, Linux, EVM, GraphQL, Node, Flask, Rails

RECENT EXPERIENCE

- **bcg.gg**
  Crypto Engineer   *May 2022 - Sept 2022*

  In my time at bcg.gg as a Crypto Engineer, I worked in a fast-paced environment with a small team to build out new features in their application, leveraging my knowledge of TypeScript and AWS. I also maintained their crypto data infrastructure, which their analytics software heavily relied on.

  - Leveraged AWS Lambda and Serverless Framework to allow customers to easily self-custody their assets by hosting an application to sign transactions on their behalf(Typescript, Express.js)
  - Led effort to integrate transaction signing directly into our web application, including integrations with major hardware wallets such as Ledger and Trezor and software such as Metamask
  - Integrated new blockchains and protocols into our SDK, as well as building and maintaining the supporting data infrastructure(Rails, TS) to expand the reach and acale of our product

- **Keisu Analytics**
  Founder   *Feb 2022 - May 2022*

  At Keisu Analytics, our goal was to offer affordable data availability solutions for all crypto protocols, especially those overlooked by larger providers. We were a DaaS provider for the Ronin Sidechain that allowed users to query for blockchain data in a much more efficient and abstracted way than available via similar public tools. Served 100 users across several pricing tiers

  - Designed, built, and maintained a web application that allowed our userbase to view detailed feature breakdowns, purchase subscriptions, issue API keys, and view usage statistics (Flask/Python)
  - Created a system to automatically issue and handle requests from API keys with various configurations, effectively metering access to our service and resulting in sub 500ms latency on all our endpoints (AWS API Gateway)
  - Reduced infrastructure costs by more than 90 percent by configuring our databases and RPC endpoints to run on baremetal servers
  - Configured and ran multiple go-ethereum nodes for both public use and indexing purposes. Nodes were the most performant by most metrics on the PoA Ronin network
  - Modified an existing blockchain indexer to reduce initial sync times from over a month to 1 week. Managed and stored multiple instances of our database containing over 1 billion rows and 2 TB of blockchain data (PostgreSQL)
  - Maintained detailed documentation on all our products and assisted customers in integrating them, helping them write complex GraphQL queries and get up-and-running within a day

- **Keisu Capital**
  Founder   *April 2021-Feb 2022*

  Keisu Capital is a proprietary trading firm with a focus on digital assets. We have done over $1,000,000 in aggregate trading volume while capitalizing on on market inefficiencies. Our strategies primarily consist of data-driven value extraction and arbitrage, with a strong focus on on-chain protocols.

  - Effectively managed a team of two engineers contributing to our appraisal and trading systems
  - Leveraged my knowledge of low-level EVM programming to seek out new strategies and write highly optimized Solidity contracts to execute them
  - Spearheaded development of our automated trading systems, building software(Python) and infrastructure(AWS, PostgreSQL) to allow us to trade with far lower latency than our competitors
  - Built advanced analytics tools, leveraging the wealth of data we collected to find new opportunities as well as integrate into the execution of our existing strategies
  - Reverse engineered the code of protocols and competititors we interacted with(Web, EVM), yielding valuable information we factored into our strategies and approach to infrastructure

- **CleveMed**
  QA Engineering/DevOps   *Aug 2020 - Jun 2021*

  As an engineer at CleveMed, I worked with the QA team to develop automated testing software and protocols, dramatically streamlining the efficiency of our testing procedures. I also worked with the engineering team to extend our backend, orchestrating the effort to implement MFA in our account system(C/.NET/Web), as well as maintaining and administrating several Windows and Linux servers.