Kai Thompson

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EXPERIENCE

Software Developer II   Oct. 2024 – Present
Wealthsimple   *Toronto, ON*
- Led the migration of our crypto microservice's read-path to our realtime monolithic ledger database.
- Overhauled existing crypto transfer flow to facilitate token deposits and withdrawals on multiple blockchains.
- Improved P99 latency of crypto price charts and historical quotes endpoints by 45x.
- Developed a Slack bot that summarizes internal product feedback into a digestible daily report.
- Contributed to a feature enabling eligible and accredited users to bypass provincial crypto purchase limits.

Senior Software Engineer   Jan. 2022 – Oct. 2024
Newton.co   *Toronto, ON*
- One of two developers behind Newton's limit order engine, which executes over 500k CAD in trades daily.
- Led the complete re-write of the crypto deposit aggregation service with projected yearly savings in the six-figure range.
- Designed and created the entire backend for Newt Loot, a crypto rewards mini-game handling over 10,000 concurrent players.
- Sole developer of a machine learning pipeline to cluster and classify relevant news articles, which was used to generate Newton's news and topic feeds.
- Contributed to the development of the fiat deposit/withdrawal service, which handles over 1 billion CAD in transactions annually.

Frontend Developer   Nov. 2021 – Jan. 2022
Treasure Chess   *Remote*
- Played a key role in the development of the user interface of chess.com's NFT collectible marketplace.
- Built and implemented marketplace backend functionality using a GraphQL API and the Apollo client.

Founder   Oct. 2020 – Aug. 2021
Krypto Depot   *Burlington, ON*
- Founder and sole operator of a brokerage, facilitating the sale of over 3.6 million CAD worth of crypto.
- Conducted compliance measures such as AML(anti-money laundering) compliance and FINTRAC reporting.

PROJECTS

ReLeaf (Devpost) | *Typescript, React, Tailwind CSS, Redux, Vite, Express.js, GCP, Playwright*   May 2023
- A one-stop shop for sustainability-focused travel planning.
- Winner of Best Sustainability Hack sponsored by Avande (Microsoft) at MetHacks 2023.
- Top contributor to the project, responsible for the majority of the backend and cloud development.

eth-date-to-block | *Typescript, Jest, NPM, GitHub Workflows*   October 2022
- 2x faster and 73x smaller than the leading solution by implementing an interpolation search algorithm.
- In October 2022, it reached a peak of 292 weekly downloads.

TECHNICAL SKILLS

Languages: Golang, Typescript, Python, Swift, HTML/CSS, SQL (Postgres), Solidity
Frameworks: React, React Native, Node.js, Express.js, Next.js, Django, Gorilla
Libraries: Gin, Fiber, Tailwind CSS, SASS, Vite, NumPy, Pandas, Fast API, Playwright
Developer Tools: Git, Docker, Pulumi, AWS (Lambda, ECS Fargate, S3, DynamoDB, RDS, SQS, SNS), Datadog

EDUCATION

Chainshot   Remote
Ethereum and Javascript Developer Bootcamp   *Oct. 2021 – Dec. 2021*

Nelson High School   Burlington, ON
High School Diploma; 4.00 GPA   *Sept. 2017 – June 2021*