

# Kai Thompson

458 Richmond St W, Toronto, ON

(905) 467-9086 | [kai.thompsonaz@gmail.com](mailto:kai.thompsonaz@gmail.com) | [linkedin.com/in/kai-thompson](https://www.linkedin.com/in/kai-thompson) | [github.com/kai-thompson](https://github.com/kai-thompson)

## EXPERIENCE

### Software Developer

Jan. 2022 – Present

*Newton.co*

*Toronto, ON*

- One of two developers responsible for the development of Newton Social. Since launch, an increase 4% increase in conversion rate was observed.
- Sole developer of a machine learning pipeline to cluster and classify relevant news articles, which is used to generate Newton's news and topic feeds.
- Pioneered the usage and implementation of a custom one table DynamoDB API, which enables join-like queries for a high-performance key-value architecture.
- Contributed to the development of a deposit/withdrawal microservices, which handles over 1 billion CAD in transactions annually.
- Deployed a blockchain reconciliation microservice to validate on-chain deposits and withdrawals, ensuring the security and integrity of all transactions.

### 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 sorting and filtering functionality using a GraphQL API, allowing for dynamic and efficient data retrieval.

### Founder

Oct. 2020 – Aug. 2021

*Krypto Depot*

*Burlington, ON*

- Trading desk totalled over 1800 sales, averaging CAD 2000 each.
- Implemented precautions including 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 renewability 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, AWS (Lambda, ECS, S3, DynamoDB, SQS, SNS), GCP, VS Code, Datadog

## EDUCATION

### University of Waterloo

Waterloo, ON

*Bachelor of Mathematics; President's Scholarship of Distinction*

*Sept. 2023 – May. 2028*

### Chainshot

Remote

*Ethereum and Javascript Developer Bootcamp*

*Oct. 2021 – Dec. 2021*

### Nelson High School

Burlington, ON

*Highschool Diploma; 4.00 GPA*

*Sept. 2017 – June 2021*