

MARK LIN

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Technical Skills

Languages: Python, Java, HTML/CSS, JavaScript, SQL, Typescript, GraphQL, Scala, Ruby

Technologies/Frameworks: React, Angular, Ruby on Rails, Node, PostgreSQL, Kubernetes, Firebase, MongoDB, AWS

Experience

Drop Technologies Inc.

Sept 2022 – Present

Software Engineer Intern

Toronto, ON

- Worked on the Drop mobile app using **React Native**, **Ruby on Rails** and **AWS**.
- Took ownership and lead the team to complete a major project increasing shop engagement by **20%**.
- Improved performance of the app by identifying and fixing **N+1 queries** in our internal API.
- Developed our internal API using **Ruby on Rails** and **Grape**.

TD Securities

Jan 2022 – Aug 2022

Software Engineer Intern

Toronto, ON

- Designed and built trading support tools used by thousands of traders internationally with **Angular.js** and **Scala**.
- Developed our internal **RESTful API** to fetch, parse and organize requested JSON data in a downloadable excel sheet.
- Improved performance of trading servers by writing **Python** scripts which helped discover and solve server lag issues.
- Created a complex risk trade curve editor using **React.js** used by thousands of traders.
- Added a PnL Flash view table that automatically updated values live using **Angular.js** and **Scala**.
- Led weekly social meetings as a committee leader with 20+ attendees for international co-ops and associates.

Year Zero Studios

May 2021 - Sept 2021

Software Developer Intern

Toronto, ON

- Created a dynamic and responsive web application using **Typescript**, **React.js**, **Next.js** and **Firebase**.
- Assisted the Product Manager in the onboarding process and increased app usage by over **100%**.
- Redesigned the entire website, refactored our RESTful APIs and architected the backend in Firebase.
- Debugged and caught errors with **Cypress** and **Sentry**.
- Implemented payment methods and scheduling with **Stripe** and **Zoom** API's.

DxChain Network

Aug 2019 - Sept 2019

Software Developer Intern

San Francisco, CA

- Created an optimised smart contract on the Ethereum blockchain using **Solidity** and **Node.js**.
- Built a decentralized application where users can pool their ether to earn the chance of increasing profits.
- Architected and developed the entire Solidity backend and designed the frontend of the application using **HTML/CSS**.

Projects

PricePal | *React.js, Next.js, MongoDB, GraphQL, Vercel*

- Developed an expense sheet application to help peers track payments using React, Next.js, MongoDB and GraphQL.

Portfolio Website | *React.js, JQuery, Next.js*

- Learnt how to use JQuery to simplify code, since it is one of the most popular libraries in the world.
- Built a website from scratch using React.js and Next.js and learnt how to host my own website.

NoteWarrior | *React.js, Next.js, MongoDB, Express.js, Vercel*

- Website for buying and selling notes using the MERN stack.

Education

University of Waterloo

2020 – 2025

Bachelor of Mathematics - Statistics & Decision Theory

Waterloo, ON

Achievements

\$2000 President's Scholarship 2020 — Academic Honour Roll (2016-2020) — Ontario Scholar 2020