

Harris Chong

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EDUCATION

University of Toronto

Bachelor of Science in Computer Science

Toronto, Canada

Sep. 2021 – Sep. 2025

EXPERIENCE

Apply Digital

Software Engineer Intern

Toronto, Canada

Sep. 2024 – Dec. 2024

- Developed and refactored reusable components with **Typescript** and **Tailwind** across desktop, mobile, and varying screen sizes, reducing development time for new layouts by **50%** and improving UI consistency.
- Optimized loading times with **NextJS** server-side rendering, reducing load times by **40%** and increasing retention.
- Implemented new components integrated with **Contentful** to fetch and display data based on **Figma** prototypes.

PointClickCare

Software Engineer Intern

Mississauga, Canada

Jan. 2024 – Apr. 2024

- Spearheaded an email automation project, implementing event handling, PDF/**PHP** template generation, and email threading using **Laravel** API, reducing manual labour by **100%** and enhancing efficiency by **50%**.
- Implemented **VueJS router navigation guard** for API get routes, ensuring secure web navigation while enforcing comprehensive user authentication checks, reducing unauthorized access incidents by **60%**.
- Led Automated End-to-End Testing suite, utilizing **Playwright automation** and **TypeScript** to enhance testing coverage by **100%**. Integrated GitHub Actions Automation Jobs, reducing testing time by **50%**.
- Created reusable schema by refactoring **PSQL** DB tables with Laravel migration scripts reducing redundant code.

Rogers Communications

Software Engineer Intern

Brampton, Canada

Jan. 2023 – Apr. 2023

- Developed **Bash** scripts to automate the creation of **Apache Kafka** topics for QA, reducing downtime by **200%**.
- Created **Kibana** indices to access **Elasticsearch** data, resulting in a **80%** reduction in analysis and testing time.
- Spearheaded the development of a tool that integrated **Azure Databricks API** to automate data updates into **CosmosDB** with **Token Auth**, increasing efficiency by **400%**, saving **\$10,000+**.
- Automated **Python** scripts to format, write, and run commands automatically, saving **6+** hours during testing and production environment data refreshes.

Microart Services Inc.

QA Engineer Intern

Markham, Canada

Sep. 2022 – Dec. 2022

- Standardized hardware/firmware of car parts by running performance assessment and QA software efficiently, exceeding testing quota by **100+** units.
- Developed a program on a **Raspberry Pi 4** and **Arduino** using **Python** to test rotation of miniature motor parts, reducing overall execution time by **50%**.

PROJECTS

QuickBytes | github.com/quickbytes

- Built a full stack food delivery app that allows the University of Toronto students to receive or drop off deliveries.
- Utilized **Google Maps API** and **Firebase Realtime DB** to track delivery locations and updates in real-time.
- Launched a **REST API** service using **Node** and **Express** with **Firebase Admin** for authentication and database interactions.

AI Crypto Webscraper | github.com/Crypto-Webscraper

- Assembled web scraper using **Python** to parse through and structure data from the r/CryptoCurrency subreddit.
- Utilized **PRAW** to provide access to Reddit's API, accessing **100+** posts in the subreddit's top weekly data.
- Implemented a sentiment analysis algorithm which categorized the data into positive and negative subgroups, resulting in an **80%** cut of financial losses.

TECHNICAL SKILLS

Languages: Python, C, Java, Javascript, Typescript, HTML/CSS, BASH, PHP, GraphQL

Frameworks: React, Vue, Next, Node, Bootstrap, Express, axios, pandas, CORS, Kubernetes, Laravel

Developer Tools: Git, Docker, Slack, Jira, Microsoft Teams, Ubuntu, Bash, Figma, Dynatrace, Kibana, Mulesoft

Backend: MongoDB, PostgresQL, Firebase