

Eric Chen

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EDUCATION

University of Waterloo

Bachelor of Applied Science, Computer Engineering

Waterloo, ON

Apr. 2025

TECHNICAL SKILLS

Languages: Java, C#, Python, C/C++, SQL, TypeScript, JavaScript, HTML/CSS

Frameworks: Spring Boot, .NET, React, Express.js, Flask, JUnit

Technologies: Git, Docker, Azure, Jenkins, Linux, BitBucket

EXPERIENCE

Full Stack Developer Intern

Sparklease Inc.

Sept. 2024 – Dec. 2024

Toronto, ON

- Spearheaded the development of a webpage to showcase discounted cars by integrating a back-end flagging system for automated price drop detection and achieving 100+ daily impressions.
- Designed modular Azure metric tracking functions, enabling performance monitoring and bottleneck detection.
- Streamlined the car listing process by implementing an in-memory cache, speeding up page loads by 300%.

Software Developer Intern

KELK

Feb. 2024 – Apr. 2024

Toronto, ON

- Led the development of an internal tool for testing hardware using JavaScript, Bootstrap and Python Flask.
- Developed a UDP broadcaster and receiver to send REST requests over a local network, allowing for wireless testing and validation of hardware.
- Designed a state machine using Python to track the progress of each test along with a multi-threaded component to test devices in parallel, reducing total runtime by over 50%.

Junior Software Developer Intern

JANA Solutions

Jan. 2023 – Apr. 2023

Aurora, ON

- Implemented C# generic repository classes to streamline data access across multiple risk calculation services, improving maintainability and code re-usability.
- Resolved page overflow and loading errors by implementing backend pagination endpoints, reducing the response times of search results and page loads by 40%.
- Authored documentation for 20+ APIs, detailing summaries, parameters and return codes to improve readability.

Software Engineering Intern

TD Bank

May. 2022 – Aug. 2022

Toronto, ON

- Designed and implemented back-end features for a new debit card printing app deployed in 200+ branches across the U.S., enabling seamless processing of print requests and customer data with Java and Oracle SQL.
- Developed Spring-based GraphQL endpoints to support multiple debit card types, and integrated them into a React frontend using Axios and TypeScript objects.
- Created a database schema for storing detailed print requests in a SQL database, ensuring reliable data entry for all supported card types.

Software Developer Intern

TD Securities

Sept. 2021 – Dec. 2021

Toronto, ON

- Automated the retrieval and analysis of high-frequency securities data with SQL stored procedures and Java post-processing to reduce query time by 30%.
- Implemented an automated outlier detection system for spreadsheets utilizing the Java Workbook object to highlight anomalies such as missing dates or stock prices.
- Migrated a webpage for viewing trading data to a React front-end utilizing React hooks to create dynamic tables.

Software Developer Intern

TD Bank

Jan. 2021 – Apr. 2021

Toronto, ON

- Improved user experiences on TD's EasyWeb online banking platform by developing 15+ web modules such as modals, dropdowns, and tables.
- Led the refactoring of a JSP in Spring Boot to meet accessibility standards for JAWS users, improving UI usability across assistive technologies.
- Utilized PuTTY to SSH into production servers and troubleshoot issues, minimizing system downtime.