

# Steven Hua

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## TECHNICAL SKILLS

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

**Technologies:** Angular, React, Jest, Node.js, Express.js, JUnit, Docker

**Developer Tools:** Git, Jira, Figma, WSL, Oracle VirtualBox, OpenStack, Visual Studio, IntelliJ

## EXPERIENCE

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### Software Developer Intern

May 2024 - Present

*Trend Micro*

*Ottawa, ON*

- Implementing an AWS Lambda function using Go with a Cognito-authorized endpoint via API Gateway to enhance the user sign-up flow, enabling users with existing accounts in other business entities to independently create new ones

### Backend Developer Intern

September 2023 - December 2023

*Ciena*

*Ottawa, ON*

- Developed a REST API endpoint using Java to automate the generation of configuration profiles for network elements, eliminating the need for manual creation
- Implemented a PATCH-enabled REST endpoint to support more efficient updating of network element resource objects, resulting in a 90% decrease in request payload size
- Refactored 25+ major unit tests for the network audit microservice by leveraging object oriented programming principles, reducing test code size by 60% and improving code readability and maintainability
- Streamlined network element configuration by implementing a new process that utilizes a custom-designed JSON schema-based profile

### Software Developer Intern

May 2023 - August 2023

*BMO Financial Group*

*Toronto, ON*

- Spearheaded the development of a modular UI component library using Angular, TypeScript, and Storybook, establishing a cohesive design language across the core Online Banking for Business (OLBB) platform
- Designed and implemented 5+ key components, including a search bar, paginator, nested actions menu, link, and footer to optimize future development processes
- Contributed to the seamless adoption of the component library into 6+ teams across the bank by delivering comprehensive presentations to facilitate successful integration
- Enhanced OLBB website accessibility by developing a new share functionality, resulting in improved user experience for a diverse audience

### Technology Analyst Intern

May 2022 - August 2022

*BMO Financial Group*

*Toronto, ON*

- Built multiple ETL (extract, transform, load) data pipelines using SQL and Netezza, resulting in over 50,000 monthly data records being processed
- Performed data validation queries by cross-referencing data from multiple tables and identifying and resolving data inconsistencies to ensure compliance with company business and analytical requirements

## PROJECTS

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### iMessagify - A visualized music journey | *React, TypeScript, Express.js, ChakraUI*

- Developed a full-stack Spotify web application that dynamically generates an iMessage-inspired user interface displaying a personal summary of a user's listening habits
- Implemented OAuth 2.0 authorization to securely integrate the Spotify Web API, enhancing user privacy and enabling the retrieval of user-specific data

### Relational Algebra Query Processor | *Python*

- Designed and developed a custom relational algebra query processor capable of parsing relations and performing complex, nested relational algebra queries

### IEEE Robotics Competition Automation Tool | *Python, Pandas*

- Engineered a custom tool using Python and Pandas to automate registration data processing, enabling efficient generation of invoices and 100% accurate tracking of event logistics management to inform logistical planning decisions

## EDUCATION

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### Carleton University

Ottawa, ON

*Bachelor of Computer Science Honours - Software Engineering Stream*

*September 2021 - May 2026*

- GPA: 3.95/4.0