

Jianbin(Chris) Cui

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EDUCATION

McMaster University

Master of Engineering in Computing and Software (Co-op), GPA:11/12.

09/2022 - 01/2025

Hamilton, Ontario

Beihang University

Bachelor of Engineering in Computer Science and Technology, GPA:89/100, rank:10%.

09/2018 - 06/2022

Beijing, China

WORKING EXPERIENCE

Software Developer

ToolBX US Inc.

02/2025 - Present

Toronto, Canada

- Built and maintained ERP integration services in a **TypeScript**-based e-commerce backend, enabling real-time status tracking and frontend visualization for Orders, Quotes, and Payments.
- Accelerated legacy cron jobs for syncing Payment data by optimizing SQL queries using **queryBuilder**, implementing effective **indexing** strategies, avoiding redundant queries, and enabling **batch** operations—cutting runtime by **50%**.
- Enhanced RPA scripts for remote dealer terminal automation by introducing robust retry logic and reducing failure rates, lowering manual intervention by over **80%**.
- Achieved over **95%** unit test coverage using Jest with mocks, stubs, and type-safe fixtures.

.Net Software Developer Co-op

FGF Brands Inc.

09/2023 - 04/2024

Toronto, Canada

- Pioneered the development and continuous enhancement of **.NET Core** and Framework **MVC** applications, enabling 5,000+ employees to streamline their daily tasks and operations efficiently.
- Implemented Access Control System in Front-End by utilizing **HTML**, **CSS**, **React**, and **Kendo UI** library, and improved their loading speed by **30%** through optimizing **JavaScript**.
- Non-Conformance Report (NCR) System Development: Built an NCR system using ASP.NET, handling both frontend (e.g., form **validation**) and backend (e.g., **data processing**) functionalities.
- Enabled continuous integration and faster delivery of updated systems by setting up the **CI/CD** pipelines on **Azure** DevOps, resulting in the timely delivery of requirements with no downtime.

Software Developer Intern

Sinopec Geophysical Corporation

02/2022 - 08/2022

Shandong, China

- Overhauled the backend architecture of an internal procurement platform using **Java Spring Boot**, **MySQL**, and **Hibernate**, focusing on the item details module to tackle performance bottlenecks and improve scalability.
- Introduced optimized **indexing** strategies for high-traffic tables and employed **asynchronous** data processing to reduce query response times and prevent **thread** blocking in critical operations.

AI Research Intern, McMaster University

06/2023 - 06/2024

- First author: Jianbin Cui. Interpretable Deep Graph-level Clustering: A Prototype-based Approach (ICPR 2024 Oral).
- Propose a framework for the unsupervised interpretable graph clustering called “developing an interpretable deep graph-level clustering (IDGC)”, which is implemented by **PyTorch**, and the code is available on [GitHub](#).

PROJECT

[Auto Jobs Applier AIHawk](#) (30k+ GitHub Stars)

Core Contributor/Collaborator

08/2024-12/2024

An open-source job application agent powered by large language models.

- Designed and implemented a locally deployable job application agent using Python, **Selenium**, and **LangChain**, enabling seamless integration with major large language models to automate job application workflows.
- Managed pull requests and resolved **over 100 reported issues**, collaborating with a global community of contributors to maintain project quality and ensure timely updates.

SKILLS

- Languages:** Python, C#, Java, JavaScript, SQL, C++, HTML/CSS, Bash
- Front-end:** React.js, JQuery, DOM, Responsive Design
- Back-end:** Node.js, Spring Boot, ASP.NET, Fast API, Django, MongoDB, MySQL