

# Richard Lu

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## EDUCATION

### University of Toronto

Honours Bachelor of Science in Computer Science with High Distinction

Mississauga, Ontario

GPA: 3.70/4.00

October 2024

## SUMMARY OF SKILLS

### Experiences in multiple environments with team members utilizing DP strategy to achieve objectives

- Programming Languages: Python, Java, C, HTML, CSS, JavaScript, TypeScript, Kotlin, Linux CLI, JSON, PHP, LaTeX

### Full Stack Web & Software Development

- Ability: React, Vue, Node.js, Spring Boot, MySQL, MongoDB, Cassandra, Kafka, Azure, Swagger, Docker, Gradle, Jira, Microservices, Server/Client model, HTTP, Frameworks, Venv, Database Model, ORM, Backend-Development, SEO, Indexing, WebSockets, ORM, Authentication, CRUD, RestAPIs, Serializers, npm, State & Events, JSX, Hooks, API Calls

### Knowledgeable in System and Network Security

- Skills: Memory and Buffer overruns, SQL Injections, Prepared-statements, Organizational principles, XSS, Cryptography

### Proficient in multiple applications to achieve multi-purpose objectives

- Applications: Ubuntu, Git, VMware, IDEA, DBEaver, Postman, Figma, Kali, Visual Studio & Code, Vim, MS, Adobe Suite

## PROJECTS

### CuisineConnect Full Stack

2024

- Engineered a secure authentication system and integrated front to back-end processes using Flask and SQL.
- Architected MVC system for optimal data handling and UI response with detailed models for usability and performance.

### Restify Full Stack

2023

- Web application for different user groups focusing on the social interaction between restaurant owners and diners.
- Full stack web application with front-back end separation: Frontend using ReactJS, Backend framework with Django.
- Django built-in SQLite database, front-back end interaction with RestAPI Calls Serialized with CORS Mechanism.

### Ext2 File System C

2022

- Ext2 FS implemented to make directories, copy & remove files and create links purely under Linux system with C.
- Implemented with persistence, concurrency and virtualization in mind, acquired locks and checked for i\_nodes.

### Contacts Organizer Python

2020 - 2022

- Implemented the ability to search, locate, add, delete and list out local contacts stored with user-friendly console interaction.
- Directly write to and read from local files with Base64 encoding for increased security and improved efficiency.

## WORK EXPERIENCE

### Tweebaa Inc.

Markham, Ontario

Senior Full Stack Developer

September, 2024 – November, 2024

- Developed scalable backend with Kotlin and MySQL, with Gradle Dependencies and Kafka Listener integration.
- Vue.js frontend development, resolving critical UI/UX issues and mentoring interns to manage and improve project delivery.

### ModiFace Inc.

Toronto, Ontario

Full Stack Developer

May, 2022 – April, 2023

- Developed Frontend SDK interfaces in a team of 9 utilizing Scrum; experienced with Vue.js framework & JavaScript.
- Maintained and implemented features for multiple Frontend SDKs, providing an improved UI & UX User Experience.
- Principles-oriented code review and testing sessions to improve code quality and application efficiency.

### Centre for Student Aid - Student Club at UTM

Mississauga, Ontario

Information Technology Assistant

January, 2021 – Present

- Ensuring the website's durability, communicating with the group members utilizing Agile Methodology.
- Expanded the abilities in object-oriented programming, version control, and interface design.

### E-Sine Energy Internet Innovation Centre Inc.

Toronto, Ontario

Secretary

May, 2018 – April, 2019

- Sort tasks for the team and provide backup support. Attention to detail, Working independently. Organizational skills↑
- Proficient in English and Mandarin Chinese, Fluent in Japanese in a fast-paced communication environment.

## AWARDS

### Dean's List

- University of Toronto

2020 – 2024

### John Pounder Prizes

- In Astronomy At Erindale

2020

## EXTRA CURRICULAR ACTIVITY & INTERESTS

### C2 Badminton Club Member

June, 2016 – July, 2019

### Interests

- Full-Stack Development, Ski, Skate, Table-Tennis, Badminton, Piano, Anime, Video Editing, Motorcycle