

Rick Lan

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EDUCATION

University of Toronto

2017 - 2022

- Specializing in Software Engineering, HB.Sc. Candidate
- GPA: 3.41

EXPERIENCE

University of Toronto

September 2021 - December 2021

Teaching Assistant (CSCC43 - Introduction to Databases) - Toronto, ON

- Taught **Relational Algebra, SQL, ER Diagrams** and **Database Design** practices to nearly 50% of the class, helping them understand concepts better
- Published supplemental lecture notes, helping 15% more students understand concepts better
- Answered questions on the course discussion board quickly, decreasing wait time by 20%

Public Services and Procurement Canada

May 2021 - December 2021

Fullstack Web Developer - Toronto, ON

- Designed a financial reporting template using **Vue**, **Laravel**, and **Microsoft SQL Server** achieving a 75% reduction in submission time for clients
- Overhauled several websites by refactoring their codebase to make it more readable, modular and efficient, improving response times by 30%
- Spearheaded the initiative to update my team's internal documentation, create a **Git** guide and teach **web development** and **SQL** to other interns, accelerating training duration by 25%

TD Canada Trust

May 2019 - January 2020

L2 IT Analyst - Toronto, ON

- Worked in a fast paced environment to provide support for web applications run on **Unix** servers, improving uptime to 95%
- Key point of communication with multiple teams to minimize deployment efforts to under 8 hours for new features
- Led the initiative to create a holistic training and documentation package for new team members, reducing onboarding time by close to 50%
- Implemented a **Python** library to automate labour intensive tasks, increasing my team's productivity by over 50%

PROJECTS

Online Sudoku Solver (<https://online-sudoku-solver.herokuapp.com/>)

September - October 2021

- Worked in a team of two to design and create an online sudoku solver that uses **backtracking** to solve sudoku puzzles
- Implemented the backend APIs and backtracking algorithm using **Flask** and deployed on **Heroku**

Konnec (<https://konnec.me/>)

April - August 2021

- Launched Konnect, a social media app that lets users text, audio and video chat with others in a private room
- Designed the frontend using **React** and the backend using **ExpressJS** connected to a **MongoDB** database
- Facilitated peer to peer text, audio and video communication using **PeerJS** and room management using **Socket.io**
- Deployed on **AWS EC2**, using **NGINX** as a reverse proxy, **Docker** to containerize the frontend and backend, and **Redis** to cache sessions

SKILLS

Languages: Python, Java, PHP, HTML, JavaScript, CSS

Frameworks: Django, Flask, React, Vue, Node.js, Laravel, Redis, PostgreSQL, Microsoft SQL Server, MongoDB, Socket.io, PeerJS

Developer Tools: Jira, Git, Bitbucket, Docker, AWS EC2, Heroku, AGILE, Unix