

# Rick Lan

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## EDUCATION

### University of Toronto

2017 - 2022

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

## SKILLS

**Languages:** Python, Java, Haskell, HTML, JavaScript, CSS

**Frameworks/Tools:** Jira, Git, Django, Flask, React, Vue, Node.js, Laravel, Redis, Bash, PostgreSQL, MongoDB

## EXPERIENCE

### Teaching Assistant

September 2021 - December 2021

University of Toronto - Scarborough

### Fullstack Web Developer (Co-op)

May 2021 - December 2021

Public Services and Procurement Canada - Toronto

- 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%
- Developed **Shell** scripts to automate time consuming work, increasing my team's productivity by 20%
- Spearheaded the initiative to update my team's internal documentation, create a **Git** guide and teach **web development** and **SQL** to other interns, allowing them to start working earlier by 1 month

### IT Analyst (Co-op)

May 2019 - January 2020

TD Canada Trust - Toronto

- Worked in a fast paced environment to provide support for web applications run on **Unix** servers
- Resolved complex software issues and led deployment changes by communicating effectively with other teams
- Led the initiative to create a **Unix** training guide and train new team members, allowing them to start working earlier by 2 months
- Implemented a **Python** library to automate labour intensive tasks, increasing my team's productivity by over 25%

## PROJECTS

### Konnect

April - August 2021

Personal Project

- 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**, using **NGINX** as a reverse proxy, **Docker** to containerize the frontend and backend, and **Redis** to cache sessions
- Link: <https://konnec.me/>

### SportsCred

September - December 2020

Academic Project

- Developed SportsCred, a Reddit-like social media app, for a client, in a team of 6
- Created a fully functional backend with REST APIs in **Django** that made SQL queries to a **PostgreSQL** database using **Django Models ORM**
- Implemented unit and regression tests using **Pytest**, catching over 50% more bugs