

# Rick Lan

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## EDUCATION

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### University of Toronto

2017 - 2022

- Specializing in Software Engineering, HB.Sc. Candidate
- GPA: 3.41
- Relevant Courses: Introduction to Software Engineering, Design and Analysis of Data Structures, Introduction to Databases, Programming on the Web

## EXPERIENCE

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### 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 two classes of 35 students each, helping 25% more students 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

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### Konnnect (<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

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

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

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