

# Rick Lan

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## WORK EXPERIENCE

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### Amazon

Toronto, ON

#### Software Engineer I (AWS Quicksight)

June 2022 - Present

- Developed and maintained an internal React component library built on **Material-UI** that supports over 60 reusable, aesthetic frontend components that is used by over a dozen teams at AWS Quicksight
- Designed and implemented a new Visual Type Selector using **React**, **TypeScript**, **Jest** and **React Testing Library** that is used by over 20,000 users to create different types of charts on analyses and dashboards, improving user experience by 20%

#### Software Engineer I (Supply Chain)

- Developed a shipment booking portal used by over 300 Amazon vendors to make the booking process simple and efficient
- Implemented a new booking system using **SpringBoot**, **React**, **Typescript**, and **AWS DynamoDB**, with complete ownership of the entire process (design, development, unit and end-to-end testing), to ensure vendors are paid on time for their merchandise, preventing them from taking on expensive loans and reducing their expenses by \$7 million per year, collectively
- Took the initiative to create an oncall runbook and an end-to-end business flow chart, reducing the investigation time of common tickets by 90% and allowing new employees to start oncall 1 month earlier

### University of Toronto

Toronto, ON

#### Teaching Assistant (Introduction to Databases and Web Applications)

January 2022 - April 2022

- Teaching assistant to 2 tutorials of 20 students each, educating them on **HTML**, **JavaScript**, **CSS**, **Flask**, **SQL**, **web development** and **Git**, and receiving a TA evaluation score of 4.5/5
- Pioneered the usage of **cloud platforms** by getting students to deploy their final project on **Heroku**, giving students their first introduction into **cloud computing** and experience with deploying a fullstack web application

### Public Services and Procurement Canada

Toronto, ON

#### Software Engineer Intern

May 2021 - December 2021

- Engineered a financial reporting system using **Vue**, **Laravel**, and **Microsoft SQL Server** that streamlines the financial reporting process for crown corporations, reducing the entire process by 3 hours
- Mentored 5 interns by taking the initiative to educate them on **Git**, **web development** fundamentals and **SQL**, increasing their productivity and empowering them to contribute effectively to the team's projects

## PROJECTS

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### Online Sudoku Solver

June 2022 - July 2022

<https://ricklan.github.io/online-sudoku-solver/>

- Designed and developed an online sudoku solver using **React** for the frontend and **Flask** for the backend
- Implemented RESTful API using **Flask** that uses a **backtracking** algorithm to solve sudoku puzzles
- Deployed the backend API to **AWS Lambda** and the frontend to **Github pages**

## SKILLS

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**Languages:** Python, Java, HTML, JavaScript, TypeScript, CSS, Bash

**Frameworks/Libraries:** Flask, React, Vue, Node.JS, Express, SpringBoot, Redux

**Databases:** PostgreSQL, Microsoft SQL Server, MongoDB, AWS DynamoDB

**Developer Tools:** AWS, Git, Github Actions, Heroku, Jira, Postman

## EDUCATION

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### University of Toronto

September 2017 - April 2022

- Honours Bachelor of Science, Computer Science (Specializing in Software Engineering)
- GPA: 3.43/4.0