

# Randy Lee

[randyclee.com](http://randyclee.com) • Toronto, ON • [rclee.business@gmail.com](mailto:rclee.business@gmail.com) • [linkedin.com/in/randyclee](https://www.linkedin.com/in/randyclee)

## TECHNICAL SKILLS

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**Languages/Frameworks:** Python, Next.js, JavaScript, Tailwind, React.js, Java, HTML, CSS, SCSS

**Tools:** Messaging systems, SQL, NoSQL (Document, Key-Value, Graph), Git, Agile Development, TDD, Hadoop

## WORK EXPERIENCE

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### Software Developer

Jul 2022 – Present

Bank of America, Toronto, ON

- **Python Back-End Development:** Analyzed business requirements and managed data pipelines to create 5+ data models. Developed **API** endpoints for these data models using the **MCV Pattern** and **Python**, enabling daily ingestion, transformation, storage, and data distribution to clients globally.
- **Release Pipeline Design and Development:** Automated the team's release pipeline using **Python** to correctly identify and test releasable code, reducing production incidents by 20% and allowing the team to offer a new paid feature. Enabled Oracle CI/CD automations using **Jenkins** and **Ansible**, reducing release lead time by 1 week.
- **Test Framework Design and Development:** Improved bug detection rate by 25% by creating a regression and performance test framework using **design patterns** and **Python** standards.
- **Code Validation System:** Created an automated system using **Python** to analyze configuration code for common errors before they are released into production, reducing errors by 5%.

### Back-End Developer

Apr 2020 – Aug 2021

IBM, Markham, ON

- **L3 Production Support:** Applied knowledge of **Java**, **Python**, and application servers to provide L3 production support, resolving multiple sev-1 high priority incidents and independently solving 50+ support tickets.
- **Intern Training:** Led the training of incoming interns via knowledge transfer sessions and supplementary videos.

### Teaching Assistant

Sep 2021 – Apr 2022

Queen's University, Kingston, ON

- **Data Structures & Algorithms Teacher:** Designed lesson plans and taught weekly tutorials for 30+ students.

## PROJECTS

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### Coursevent

2023

Class Marketplace Application with Social Elements, [coursevent.com](http://coursevent.com)

- **Project Management:** Implemented a workflow management system for a team of three developers using **Notion** to provide the ability to track objectives, manage feature development, store documentation and organize meetings.
- **Front-End Development:** Implemented **Next.js**, **Tailwind**, **JavaScript**, and **OpenStreetMap** to develop a class marketplace application, enabling UI accessibility for class discovery and signup. In addition, developed a user interface for businesses to create classes, manage scheduling, and view class statistics.
- **Project Requirement Analysis:** Conducted in-depth market research and user interviews to identify key project requirements and translated these requirements into actionable development tasks.

### Scobaby

2022

Kombucha eCommerce Website: [thescobaby.com](http://thescobaby.com)

- **Front-End Development:** Utilized **React**, **Google Cloud Platform** and **Figma** to engineer the front-end of a website that allows users to place kombucha orders, processing 100+ orders through the website.
- **Back-End Development:** Generated \$1000+ in revenue by designing and implementing an API for the company's inventory management system using **JavaScript**, **AWS** and **MySQL**.

### QUANTT Algorithmic Trading Bot

2022

Algorithmic Trading Competition

- **Team Lead:** Led a team of 4 by organizing meetings, designing objectives, managing deadlines and creating **Python** code to create a trading bot that placed 4<sup>th</sup> in a school-wide algorithmic trading competition.
- **Sentiment Analysis:** Utilized **NLTK** to analyze the sentiment of stocks by reading news data from various **APIs**.

## EDUCATION

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### Bachelor of Applied Science

Computer Engineering,  
Queen's University

## CERTIFICATIONS

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**Certifications:** Certificate in Business: Queen's University (2022), Deep Learning Specialization: Coursera (2020)