

RICKY LUO

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EDUCATION

University of British Columbia

Sep 2021 - Apr 2025

Bachelor's of Science, Major in Computer Science

Vancouver, BC

- Relevant Courses: Software Engineering, Data Structures & Algorithms, Relational Databases

EXPERIENCE

Boeing

Jan 2024 - Apr 2024

Incoming Software Development Intern

Vancouver, BC

- Flight Data Analytics Team

BMO Financial Group

Jan 2023 - Aug 2023

Software Developer Intern

Toronto, ON

- Designed a boundary policy (BP) tooling solution that cuts AWS deployment approvals needed by 87%+ (~\$55k/monthly savings) using **Python** and **GitHub Actions**.
- Wrote a RESTful parsing API that reduced BP creation time by 97% with Babel, **Next.js**, and **Node.js**.
- Developed a **React** dashboard that reduces the steps needed to view AWS details by 79% via **AWS SDK** calls.
- Monitored performance indicators of a **CI/CD** pipeline used by 24+ teams with **AWS SNS & CloudWatch**.
- Deployed and managed container images to standardize OS and deployment using **Docker**.
- Improved code through testing (83% coverage) and handling type assertions by refactoring to **TypeScript**.

STEMKid Edu

May 2022 - Aug 2022

Web Developer

Markham, ON

- Designed and maintained company website, supporting 200+ user registrations with **HTML** and **CSS**,
- Reduced website load time by 34% by implementing browser caching and compressing images and PDFs.

PROJECTS

Slide2Study (AI Powerpoint to Notes Converter) | MongoDB, Express.js, React, Node.js, Next.js, Python

- Prototyped an application that uses OpenAI API to convert .pptx and Slides into simplified and digestible notes.
- Designed front-end using React and TailwindCSS and implemented user-authentication through Auth0.
- Deployed MongoDB to store user information and utilized Express to route queries to database.

PokémonQuiz (Quiz Form Web App) | JavaScript, React, Node.js, Axios, Material-UI

- Designed a quiz-style web app that gives users a response based on the response the user inputs.
- Configured the front-end using React.js and bootstrapped with Material-UI for efficient and modern design.
- Performed API calls to the PokeAPI endpoint using Axios GET requests using information based on the sort.

REInfo (Receipt Tracker Web App) | Python, JavaScript, Flask, GCP, HTML, CSS

- Created an app that lets users to upload a receipt and automatically formulate everything into a spreadsheet.
- Developed a Python back-end using the Flask framework to enable GCP Cloud Vision and Google Sheets API.
- Implemented SQLAlchemy to store user data and usage history.

TECHNICAL SKILLS

Languages: Java, Python, C, C++, JavaScript, TypeScript

Frameworks/Testing: React.js, Next.js, Express.js, Tailwind, Jest, Postman, JUnit

Technologies: Git, AWS (Amazon Web Services), GCP (Google Cloud Products), Node.js, Unix, SQL, NoSQL