

RICKY LUO

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EDUCATION

University of British Columbia

Bachelor's of Science, Major in Computer Science

Sep 2021 - Present

Vancouver, BC

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

EXPERIENCE

Software Developer Intern

BMO Financial Group

Jan 2023 - Aug 2023

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 code-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**.

Front-End Developer

STEMKid Education

May 2022 - Aug 2022

Markham, ON

- Designed and maintained company website in **HTML** and **CSS**, supporting 200+ user registrations.
- 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 a app that allows 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.

Classic Games (Java Game) | Java, JUnit, Java Swing

- Employed object-oriented programming principles in Java to build modular, local-multiplayer video game.
- Developed mechanics and utilized threading to achieve optimized frame rate, creating a smooth experience.
- Enhanced code readability by declaring object classes and leveraging Java's class inheritance.

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