□ (+1) 647-656-2258 | ☑ e82liu@uwaterloo.ca | 🌴 www.airickLeo.com | ☑ airickLeo | 🛅 Eric Liu

Education_

University of Waterloo

Candidate For Bachelors of Computer Science

Waterloo, Canada Sep. 2021 - Apr. 2026

Technical Skills

Languages:JavaScript/TypeScript, C/C++, Python, Kotlin, HTML, CSS, SQL, C#, Java, BashFrameworks:React, Express.js, Node.js, Spring Boot, Angular, Playwright, Pandas, NumPyTools:OpenShift, Kubernetes, Docker, Jenkins, PostgreSQL, MySQL, Cloud SQL, AWS, Git

Work Experience

Canadian Imperial Bank of Commerce

May. 2024 – Present Toronto, Canada

Software Engineer | Kubernetes, Docker, Jenkins, JavaScript, Java

- Spearheaded the development of new user interfaces for the industrial fraud management application utilizing React
- Engineered CI/CD pipelines using Jenkins to containerize and deploy 12 core business APIs to OpenShift, supporting both integration testing and production environments, resulting in a 52% reduction in post-deployment issues
- Reduced Aqua Scan vulnerabilities by 95% through implementing fixes and migrating JDK versions, ensuring compliance with corporate security standards and significantly enhancing overall system security
- **Conducted extensive code reviews** during UI development for the industrial fraud management application, reducing product errors by **20%** and ensuring robust, user-friendly interfaces

SynMatrix Technologies Inc

Jan. 2023 - Apr. 2023

Software Engineer | React, Express.js, JavaScript, Playwright

Richmond Hill, Canada

- Designed a JSON-driven, object-oriented CLI application for web automation, validation, and testing of enterprise software
 utilizing JavaScript, Playwright, and TDD, ultimately expediting the SDLC
- Leveraged **modularization**, **page-object model**, **polymorphism**, and the **factory method** to improve program encapsulation, scalability, abstraction, and efficiency by **64%**
- Developed a single-page application with **React** and **Express.js**, enabling users to upload, edit, execute and visualize input JSON files for the CLI application, enhancing user interaction and accessibility
- The CLI application served as a prototype to drive the AI-based technical support platform and was recognized by various development teams for its innovation and utility

GrantMatch May. 2022 – Aug. 2022

Data Engineer | Python, SQL, Pandas, NumPy, AWS

Oakville, Canada

- Led the design and implementation of intuitive user interfaces for a data catalog web application utilizing Python Dash and Bootstrap, leading to 30% increased user engagement and a more efficient data discovery process
- Utilized HTTP Requests, BeautifulSoup, and Selenium to program automated scripts that perform user login and extract
 desired information from over 10 online database platforms with 4000+ data entries
- Implemented ETL pipelines to transform semi-structured and unstructured data and implemented AWS Lambda Triggers to map 549 scraped funding programs into the intermediate PostgreSQL database

Projects

UWConnect %

Kotlin, Cloud SQL, Retrofit, Jetpack Compose, Ktor

- Led a team of four developers to create an Android application that serves as a central hub for resources and information, enhancing connectivity and collaboration at the University of Waterloo
- Designed **controllers** and **middleware** following **MVVM** architecture and utilized **coroutines** and **concurrency** to seamlessly integrate the client and server while **improving user experience**
- Implemented JWT authentication for secure user sign-in, action authorization, and auto re-authentication on app relaunch
- Developed responsive user interfaces using Compose and created various REST API endpoints to support advanced application features using Cloud SQL and Ktor

MealForU %

React, Express.js, PostgreSQL, Axios, Tailwind CSS

- Developed a dietary application utilizing the Edamam API, in which users can input the preferred nutrient composition to obtain recipes that provide ingredients, detailed instructions, and recipe image
- Performed server-side input verification and conducted API calls to extract recipes from all pages in linear time