Austin Luk

aluk06@mylangara.ca | (778) 680 2954 | github: https://github.com/austinluk | Vancouver, BC

Technical Skills

- Proficient in Java, JavaScript, HTML, C++, Python, and CSS with hands-on experience in developing and deploying software solutions using these technologies.
- Developed and maintained 100+ automated tests to ensure the quality and functionality of software applications.
- Installed and configured software environments for web applications, utilizing Java, JavaScript, and C++ following best practices.

Software

Languages: Java, JavaScript, C++, C#, HTML, Python, CSS

Technologies: React, Git, Next.js, Node.js, AWS (Lambda, API)

Education

Langara College   **Vancouver, BC | Sep 2023 – Present**

Associate of Science Computer Science   *Expected* Graduation Date: Sep 2027

   Honours: Dean's list (Dec 2023)

   Coursework: Data Structures & Algorithms, Program design, Object-Oriented design, Web development

   Activities: Langara Computer Science Club

Project Experience

To-Do List   **May 2024 – June 2024**

Web Development

- Collaborated with a classmate designing and developing a responsive web-based To-Do List application using JavaScript, HTML, and CSS
- Focused on user experiences (UX) by implementing a clean intuitive interface and ensuring cross-browser compatibility.
- Organized meeting with class member to go over design and the development of project, spending 4 hours a week.
- Applied agile methodologies to improve the application's design and functionality.

Group Chat Room   **Feb 2024 – March 2024**

Object-Oriented Computing

- Implemented multithreading techniques to manage concurrent tasks, such as message broadcasting and connection handling.
- Implemented a TCP/IP based networking framework to facilitate real-time communication between multiple clients in a chat room.
- Designed and developed unit test cases to ensure the reliability of object-oriented code.
- Created detailed UML diagrams to visualize and document software architecture and design. Used extensively in the early SDLC stages for clarity and alignment.

Phone Number Transcribe   **Sep 2023 – Dec 2023**

Program Design

- Designed and implemented a Java application to convert ten-digit telephone number into possible word representation based on standard telephone keyboard mapping
- Debugged and resolved issues related to string manipulation, file reading, and user input.
- Optimized the combination generation and word mapping process to handle the large number of potential combinations efficiently.

Austin Luk

aluk06@mylangara.ca | github: https://github.com/austinluk | (778) 680 2954

Personal Project

LeetMeIn   **Nodejs, React, ChatGPT**
- Developed a mock tech interview platform that simulates real-world scenarios.
- Utilized JavaScript and Next.js to build an interactive coding platform, incorporating Tailwind CSS for responsive UI design and Zustand for state management.
- Developed a real-time AI-driven code analysis feature using the Chat Completions API (4o-mini) to provide users with feedback on code performance and optimization strategies.
- Implemented Web Speech API to enable voice interactions for a more accessible user experience.

Campus Critic   **Nodejs, React, ChatGPT**
- Developed a web scraper for Rate My Professor, integrated with a RAG pipeline with Pinecone and used OpenAI for real-time user responses.
- Implemented user-friendly interfaces and optimized front-end performance using React, enhancing the user experience and enabling efficient interaction with real-time AI-driven responses.

SaaS Flashcards   **Nodejs, React, ChatGPT**
- Created and launched a SaaS product generating dynamic flashcards using the ChatGPT API, with integrated Stripe paywall and pricing plans
- Designed and implemented a user-friendly dashboard using React and Node.js, enabling users to track progress and customize flashcard sets, resulting in enhanced engagement and retention.

Checker Game   **JavaScript + HTML/CSS**
- Created and deployed a checker game using JavaScript and HTML/CSS focusing on both functionality and visual appeal.
- Implemented game logic to handle players moves, enforce rules and determine game outcomes
-

Work Experiences

Headstarter AI   **July 2024 - Present**
Software Engineer Fellow
- Designed and implemented multiple innovative projects using NextJS, OpenAI, Pinecone, and StripeAPI.
- Led and deployed full-stack projects using MVC design patterns through mentoring and feedback from industry leaders. (ex. Google, Meta, Facebook)

Volunteer Experience

Thunderbird Community Centre   **Vancouver, Canada | May 2018 – Aug 2023**
Volunteer
- Collaborated with the youth committee to organize and coordinate numerous festivals and events. Providing valuable assistance.
- Communicated with other youth members to plan, develop, and implement diverse resident lifestyle programs.