

# Austin Luk

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## 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)

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## 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

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## Project Experiences

### 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

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## Personal Projects

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### StrikeLine

C#, Unity

- Designed and developed *StrikeLine*, a fast-paced top-down shooter where players navigate tactical combat scenarios, utilizing Unity and C#.
- Implemented tactical gameplay mechanics, including player controls, weapon systems, and enemy encounters, enhancing gameplay dynamics.
- Optimized performance by streamlining collision detection and refining code structure, resulting in smoother gameplay and increased frame rates.

### 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.

## Work Experiences

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### Mathnasium

Sept 2024 – Present

#### Instructor

- Worked with 4-10 students demonstrating varying levels of understanding to learn and consolidate mathematical concepts
- Collaborated with 3-4 team members to optimize the learning experience offered to students, creating a welcoming environment for discussion and problem-based learning

### Headstarter AI

July 2024 – Sept 2024

#### 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)

### Aritzia

Vancouver, Canada | Aug 2023 – Sep 2023

#### Team Lead

- Supervised and led a team of 10-20 crew members at Aritzia Warehouse sale.
- Multitasking effectively by managing the crew's break schedule and role assignments, as well as keeping the warehouse tidy by overseeing floor cleaning and rack organization.
- Professionally served 1000+ customers daily with efficient and friendly customer service.