

Austin Luk

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Software

Languages: Java, JavaScript, C++, C#, HTML, Python, CSS
Technologies: React, Git, Next.js, Node.js, AWS (Lambda, API)

Education

Langara College <i>Associate of Science Computer Science</i> <i>Honours:</i> Dean's list (Dec 2023) <i>Coursework:</i> Data Structures & Algorithms, Object-Oriented design, Web development, Databases <i>Activities:</i> Vice-President of Langara Volleyball Club, Langara Computer Science Club.	Vancouver, BC Sep 2023 – Present <i>Expected Graduation Date:</i> Sep 2027
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Personal Projects

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| NextStep <ul style="list-style-type: none">Developed an advanced map application that allows users to search for both normal driving and walking routes, as well as scenic alternatives. The app uses natural language processing to interpret search queries, offering various route options based on user preferences.Leveraged Puppeteer for web scraping to gather data on safety reports, local meetups, and community events.Optimized route visualization using Google Maps API and OpenStreetMap, delivering real-time results for healthier, safer, and environmentally friendly travel options. | Next.js, OpenStreetMap, JavaScript |
| StrikeLine <ul style="list-style-type: none">Designed and developed <i>StrikeLine</i>, 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. | C#, Unity |
| LeetMeIn <ul style="list-style-type: none">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 (GPT-4o-mini) to provide users with feedback on code performance and optimization strategies. | Node.js, React, ChatGPT |
| Campus Critic <ul style="list-style-type: none">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. | Node.js, React, ChatGPT |

Work Experiences

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| Headstarter AI
Software Engineer Fellow <ul style="list-style-type: none">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) | Remote
July 2024 – Sept 2024 |
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