Lesley Hou

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EDUCATION

Western University, Ivey Business School   London, ON, Canada
Bachelors of Science (Computer Science), Bachelors of Arts (Honors Business Administration)   *April 2025*
- **Coursework**: Data Structures and Algorithms, Systems Programming, Computer Organization and Architecture, Linear Algebra, Discrete Structures, Object-oriented Design and Analysis, Computer Graphics

EXPERIENCE

Perpetua   May 2024 - August 2024
Software Engineer Intern – Full-stack   *Toronto, ON, Canada*
- Updated depreciated Amazon API calls by transitioning from instance-level to rule-based audience API, enabling support for non-Perpetua account IDs for Amazon Marketing Cloud audiences
- Developed and implemented dynamic web components, including Ad Preferences and Advanced Flight modals, utilizing React.js to optimize user customization and enhance advertisement management
- Triaged and resolved workflow errors by identifying root causes and implementing efficient backend fixes
- Refactored existing backend endpoints to ensure idempotency, enabling automated retries for failed workflows

Perpetua   May 2023 - August 2023
Software Engineer Intern – Frontend   *Toronto, ON, Canada*
- Developed optimizations to goal editing flow, reducing editing time by 24% with a bulk update functionality to allow global changes within the Multi-Ad Group Harvesting editing process
- Streamlined navigation flow and modernized existing interfaces, implementing UI/UX improvements for goal configuration and adding targets to goals
- Enhanced code performance, maintainability, and long-term scalability with a comprehensive refactoring initiative to replace legacy web components with modern counterparts

Greencube Analytics   May 2022 – August 2022
Software Engineer Intern – Backend   *Toronto, ON, Canada*
- Developed and implemented backend endpoints using SQLAlchemy to handle complex database operations
- Designed and developed a robust web crawler to retrieve company news and insights from an online database and prospecting platform to streamline lead generation and enhance data accuracy

PROJECTS

Game Boy++ | *C++*
- Developed a Game Boy emulator using SFML for graphics emulation and sprite rendering, and Catch2 for testing

Ivey Learn Plus | *Javascript*
- A Chrome extension with a 23% adoption rate among HBA1 students that streamlines Ivey room bookings through user-friendly UI components, simplified access to personal bookings, and additional room specifications

Breakout | *Python*
- Developed a 2D sprite-based top-down shooter video game using Pygame, implementing game mechanics such as character movement, enemies, level design, and in-game HUD elements based on the Binding of Isaac

OTHER ACTIVITIES AND INTERESTS

Computer Science Undergraduate Society | *Web Developer*
- Spearheaded a comprehensive website redesign project to enhance student experience, usability, visual appeal, and content organization using React.js and Tailwind

Hack Western | *Web Lead, Full-stack Developer*
- Led a team of 6 developers in building the promotional site, application portal, and the live site using Next.js and PostgreSQL for Hack Western, one of Canada's largest hackathons that welcomes 800 participants annually

TECHNICAL SKILLS

Languages: Java, Python, C/C++, TypeScript/JavaScript, HTML/CSS, SQL
Frameworks and Tools: React.js, Flask, Next.js, Tailwind, Django, React Native, Git, Docker, Postman
Interests: Design thinking, UI/UX, Software Development, Prototyping