Ashleigh Liu

http://ashleighliu.github.io/

Email : ashleigh.liu@mail.utoronto.ca

Mobile : +1-437-388-1157

EDUCATION

University of Toronto | *Honours Bachelor of Science in Computer Science*   *April 2025 (Expected)*
- Double Major in Computer Science and English
- **Relevant Coursework**: Software Design, Software Tools and Systems Programming, Design and Analysis of Data Structures, Operating Systems, Computer Organization, Human-Computer Interaction, Databases

PROGRAMMING SKILLS

Languages: Python, Java, JavaScript, TypeScript, C++, HTML, CSS, SQL, R, MATLAB, Linux Shell
Frameworks & Tools: React, Node.js, jQuery, APIs (REST, GraphQL), Docker, CI/CD, Kubernetes, MongoDB, SciKit-Learn, PyTorch, Microsoft Power BI, AWS, Firebase, Android Studio, Jira, Git, Selenium

EXPERIENCE

Citi | *Software Engineer Intern*   *May 2024 - August 2024*
- Spearheaded the creation of a continuous integration pipeline using Jenkins, Docker, and Kubernetes, streamlining the deployment process and reducing deployment times by **40%**.
- Led the migration of legacy systems to a microservice architecture, reducing system downtime by **25%** and improving scalability and maintainability.
- Refactored **700+** lines of legacy AngularJS plugins to Angular, improving code modularity using dependency injection.

HubSpot | *Software Engineer Intern*   *January 2024 - May 2024*
- Spearheaded the re-development of Commerce Hub enrollment, achieving a **30%** decrease in customer drop-off rates by A/B testing multiple UI variants using TypeScript, React, Redux, GraphQL, and Node.js.
- Designed and developed custom software architectures for driving growth to Commerce Hub tools, leading to an **800+** increase in monthly HubSpot Payments enrollments and a **20%** growth in overall revenue processing.
- Enhanced software reliability and user interface with over **5000+** lines of code, efficiently resolving over **50+** mainsail tickets and designing comprehensive test suites, contributing to a **40%** increase in testing coverage.

Scotiabank | *Data Scientist Intern*   *January 2023 - April 2023*
- Developed a revenue prediction model with **92%** accuracy using machine learning techniques and tools like SciKit-Learn, PyTorch, and TensorFlow, delivering precise revenue predictions for small business clients.
- Developed an automated debt tracking system with Python and Hadoop, saving over **$60,000** annually and streamlining debt management processes for small businesses.
- Created interaction data visualizations using Python and Tableau, improving revenue forecasting accuracy by **15%** and enabling faster decision-making for executives.

CheaprEats | *UI/UX Design Intern*   *January 2023 - April 2023*
- Developed over **30+** interactive, user-centered mobile prototypes for a financial & analytics dashboard mobile application using Figma and AdobeXD, aligning designs with industry trends and UI/UX principles.

Gun Raiders Entertainment | *Software Developer Intern*   *October 2022 - December 2022*
- Engineered main user interface using JavaScript, React, and REST APIs, contributing to the creation of interactive and responsive site features for the **#1** free-to-play VR Shooter game on the Quest VR platform.

PROJECTS

- **Needful**: A cross-platform meditation & productivity AI-driven mobile application with **100+** wait-listed users, built using React Native, AWS Lambda and DynamoDB, empowering users to achieve personal & professional growth.
- **Kirei Korner**: Co-founded and engineered an e-commerce platform with **1000+** sales using Next.js, React, MongoDB, and Tailwind for anime merchandise sales, handling end-to-end operations including social media marketing, customer support, and order fulfillment.