Abhishek Madan

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Education

University of Toronto, *Computer Engineering* Sep 2020 – May 2025

- B.A.Sc. in Electrical and Computer Engineering with Minor in Artificial Intelligence Engineering.
- Undergraduate Coursework: Algorithms and Data Structures, Computer Networks, Operating Systems, Software Engineering, Deep Learning, Distributed Systems, Artificial Intelligence.

Professional Experience

Mozilla, *Software Engineering Intern* May 2023 – August 2024

- Proposed and developed a context menu item that removes tracking parameters and link decorations from URLs when copying them, which is now utilized by **over 100,000 users daily.**
- Implemented a user-controlled opt-in feature for social media embeds, allowing users to selectively view content which may contain trackers through a secure UI element embedded on websites to reduce web-compatibility issues
- Aided in development of a feature to auto-dismiss cookie banner prompts on **over 1,000,00 websites**
- Implemented a storage partitioning mechanism for Blob URLs, ensuring that Blob URLs cannot be used by trackers to bypass tracking prevention measures achieved by Total Cookie Protection
- Streamlined the teams triage methodology by creating a website to congregate bugs and sort them

University of Toronto, *Teaching Assisstant* Jan 2023 – May 2023

Software Communication & Design(ECE297)

- Facilitated weekly lab sessions, guided students in developing a mapping application with pathfinding capabilities in C++, and provided hands-on support for code troubleshooting and optimization.
- Assessed and graded student projects, offering constructive feedback to enhance their technical skills and project outcomes.

Expense Anywhere, *Software Engineering Intern* June 2022 – September 2022

- Spearheaded the development of an Azure pipeline to convert and migrate travel expense data for over 11,000 employees to the client's private Azure datalake

Projects

Virtual Teaching Assistant May 2024 – present

- Collaborating with Dr. Salma Emara to design an agentic Retrieval-Augmented Generation (RAG) system for a comprehensive knowledge base comprised of course conent, delivering round-the-clock support to first-year students in APS105 - Computer Fundamentals.

Distributed Storage Network Jan 2023 – May 2023

- Designed and deployed robust distributed server architecture(in Java) which can handle multiple concurrent clients and a vast array of failure scenarios.

Mapping Application Jan 2022 – May 2022

- Led a team of 3 students to develop a Geographic Information System (in C++) with searching and pathfinding functionality, placing **1st out of 100** teams in developing the most accurate solution to the Travelling Courier Problem.

Languages and Technologies

- Languages: Java, C/C++, JavaScript, HTML, Python, Assembly.
- Frameworks: React, React Native, JUnit, Django, Anaconda, Bootstrap, UnitTest++