

# Sarah John

Computer Engineering Student

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## Education

### University of Toronto

Toronto, ON

Bachelor of Applied Science (BASc) in Computer Engineering

Expected June 2025

- Relevant Courses:** Computer Fundamentals (C,C++), Computer Organization (ARM Assembly), Software Communication and Design, Data Structures and Algorithms, Operating Systems, Databases, Software Engineering

## Skills

**Languages** C, C++, C#, Python, TypeScript, Javascript, HTML/CSS, ARM Assembly

**Tools** Azure, GitHub, Docker, Figma

**Frameworks and Libraries** Angular, React, Flask

## Work Experience

### Hatch

Oakville, ON

Junior Developer

May 2023 - June 2024

- Upgraded an existing application from an AngularJS solution to Angular by incorporating custom styling and enhancements to align with current design standards (HTML, CSS, Angular Material)
- Implemented front-end functionalities using TypeScript, HTML, and CSS, providing users with a seamless experience
- Built on a React 3D Modelling Viewer, integrating the EC3 Carbon Calculator for engineers to analyze their carbon impact in design
- Created an ASP.NET web API to manage, send, and receive data from EC3's Carbon Calculator

### Shad Canada

Halifax, NS

Program Assistant

July 2021, 2022, 2024

- Fostered student development through program activities (i.e. lectures, workshops, off-campus trips)
- Served as the engineering representative to guide the design process, problem solving, and plan engineering challenges for 54 students

### Dalhousie University (CIOOS Atlantic)

Halifax, NS (Remote)

Data Trust Software Developer

May 2022 - June 2022

- Worked in a team of 3 to develop a proof-of-concept data trust for ocean data
- Used Agile project management practices, Git, and GitHub within the team to manage the project along with C++ and SEAL, Microsoft's open-source homomorphic encryption library
- Fixed bugs, created handlers for decrypted data using SEAL, and built tests using the Google Testing Suite

## University Projects

### Food Finder: Geographical Interface System

University of Toronto

Jan 2022 - April 2022

- Worked in a team of 3 to build a largescale interactive mapping software (similar to Google Maps) using Agile project management practices
- Used OpenStreetMap API, C++, and GTK graphics library
- Designed geographical features (POIs, subways, buildings, bodies of water etc.), and implemented Dijkstra's algorithm to find ideal delivery paths within time constraints

### Personal Project

Website Development

Jan 2024 - Present

- Building a personal website from scratch using Angular framework and skills in HTML, CSS, and TypeScript

## Extracurriculars

### Brand Growth Associate

You're Next Career Network

Apr 2023 - Present

- Student run professional development club that hosts career fairs and workshops for engineering students reaching 3000+ students
- Working on creating engaging short form content, [articles](#), and resources

### Website and Marketing Associate

St. Mathews Mar Thoma Church

Jan 2024 - Present

- Used Cornerstone UI, Canva, Wordpress and custom CSS styling to create a youth [conference website](#) expecting 400+ people
- Working on a team of 5 to create engaging short-form content promoting the conference and fundraisers

**References available upon request.**