

# Sathira Williams

## Software Engineering Student

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Software engineering undergraduate with a strong foundation in computer science, mathematics, and data analysis. Seeking to leverage technical and programming skills to excel as a software engineer in a dynamic business environment.

### Technical Skills

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**Languages:** C, Java, MatLab, Python, SQL, Bash

**Technologies:** Github, IntelliJ, VSCode, Eclipse, Arduino

**Software Suites:** Adobe Creative Cloud, MS Office, Linux Environment

### Course Work

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- System Specifications and Refinements
- Relational DBMS
- Engineering Statistics
- Applied Multivariate & Vector Calculus

### Education

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**B.Eng., Spec. Hons. Software Engineering**

York University

2020 - Current(Expected Graduation: 2024)

- Achieved top 3 in the York Engineering Competition (2020)
- Enrolled in ISC<sup>2</sup> certification process (2022)

### Project Experience

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**Arduino Fan Control**

2020

- [github.com/pwSathira/arduino-fan-control](https://github.com/pwSathira/arduino-fan-control)

- Uses the Grove Board Arduino, which controls a fan through JavaFX user interface.
- Arduino library is used to send the output of a DHT-11 (Humidity/Temperature sensor) to JavaFX window to display the current temperature and humidity.
- Auto-fan mode takes the output of the DHT-11 to determine if the fan is required to be turned on/off. This mode can be toggled through the UI.
- The UI is exported on a regular basis to the cloud, which can then be accessed through any device with Google Drive.

**BookMate – Library System Database**

2023

- [github.com/goIsaiah/LibraryProject](https://github.com/goIsaiah/LibraryProject)

- Created a Library/Social media hybrid app using Java, and MySQL
- Worked and lead in a team environment to design, implement, and refine the application.

## **Lorenz-Attractor Demo Website**

2022

- [github.com/pwSathira/Lorenz\\_Attractor](https://github.com/pwSathira/Lorenz_Attractor)

- Uses Flask to setup a local server to demo a render of Lorenz Attractor.
- Translated the differential equations of the effect into code, which was then rendered onto the website.

## **Work Experience**

### **Chuck E. Cheese –**

2021 - Current

Game Room Attendant

- Awarded Employee of the Month for outstanding performance
- Troubleshoot and resolved technical issues with arcade machines
- Trained and supervised new employees