

HARSHIL SHAH

COMPUTER ENGINEERING

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LANGUAGES & TECHNOLOGIES

- **Languages:** Java, Python, JavaScript, HTML, CSS, C++, SQL, Lua
- **Frameworks/Libraries:** React.js, React Native, Node.js
- **Other/Tools:** JIRA, MS SQL Server, SQLite, Java Swing, Postman, Arduino
- **Certifications:** Python for Data Science, SQL Programming, OOP Principles in Java, Learning React.js

WORK EXPERIENCE

Front-End Mobile Application Developer (Project Lead)

S M Software Solutions | May 2021 - Aug 2021

- Developed a **cross-platform** mobile application using **React Native** for the front-end user interface to expand company's outreach to different platforms
- Used **JIRA** and followed the **agile methodology** for the optimization of task management to efficiently complete them
- Utilized **MS SQL Server** as a database while using **SQL** to create queries and track user input such as their login information
- Mentored new team members about the **frameworks and libraries** which were implemented to increase team productivity
- Extracted data in **JSON format** from company's dynamic **REST APIs** to increase versatility of the application
- Created **test data** and performed **front-end/unit testing** to ensure robust functionality of the application

Programming Teacher

DataWiz Academy of Data Science | Aug 2021 - Present

- Taught the fundamentals of programming to enhance students' technical knowledge in **Lua** through **Roblox Studio**
- Prepared and **assigned various projects** to the students to evaluate their progress, and stimulate their interest in coding

Sports Instructor

City of Toronto | Jul 2017 - Dec 2019

- **Coached youth** on the basics of basketball and soccer to enhance their technical skills in these sports
- **Led numerous drills** to ensure that they were able to successfully play a competitive game with the skills taught
- Received certification in **CPR-C and First Aid** to assist children in distress and provide appropriate care to any injury
- Received training in **High Five – Principles of Healthy Child Development** to understand the development and growth of children

PROJECTS

Self-Solving Sudoku

www.github.com/harshils1/Sudoku

- Utilized **Object Oriented Programming** in Java to create a Sudoku puzzle with a **Graphical User Interface** from the **Java Swing Widget Toolkit**
- Implemented back-end **algorithm logic** which enables **self-solving capabilities** for any given solvable puzzle to provide better functionality and increase versatility

Personal Website

www.github.com/harshils1/harshils1.github.io

- Created a website to display accomplishments and ability to develop a **web application** using **HTML, CSS, and JavaScript**

Internet of Things Weather Station

www.github.com/harshils1/IoT-Weather-Station

- Created an **internet-connected weather station** using the **Arduino UNO R3 board**, implementing **C++** as the programming language for the Arduino IDE
- Utilized **temperature, light, humidity, and atmospheric sensors** to **collect data**, which was then displayed to a data logging website using the **ESP-01 Wi-Fi Module**

EDUCATION

University of Waterloo

Candidate for BAsC in Computer Engineering | Sep 2021 - May 2026 (Expected)

- Awarded Foresters Competitive Scholarship