

SAMANDEEP VIRDI

THIRD YEAR COMPUTER ENGINEERING STUDENT

Phone: 647-539-7224 Email: virdis2@mcmaster.ca Portfolio: samvirdi.github.io Github: samvirdi

EDUCATION

School: McMaster University
Degree: Bachelors of Engineering
Graduation: April 2022

Relevant Courses: Principles of Programming, Data Structures and Algorithms, Programming Micro-controllers, Digital Systems Design

LANGUAGES

Java	● ● ● ●
C	● ● ● ○
Python	● ● ● ○
C++	● ● ○ ○
SQL	● ● ○ ○
C#	● ● ● ○
XAML	● ● ● ○

SKILLS

- Always willing to learn anything new
- Ability to pick up and learn new languages on the fly.
- Exceptional Communication skills which allow seamless integration with members of any team

LANGUAGES

Punjabi
Hindi

EMPLOYMENT HISTORY

CIBC- CO-OP Software Developer

Toronto

January 2020 - December 2020

- Worked in an **Agile** Development environment with daily team meetings discussing goals and tasks at hand.
- Was put on a team to make a newly designed feature within the current project. Had a quick development cycle and had to be completed in a short amount of time.
- Development was primarily with **Java**, **Maven** was used to build the projects, **SpringBoot** was used to run applications that were made using **Angular**.
- Used **OpenShift** to handle the containers that were being run for each process. Had to go into OpenShift and turn off the containers if there was local testing required for newly implemented features.
- Used **Microsoft SQL Management Studio** to update the multiple databases used for project. Also had to update scripts whenever a new element was created in the code.
- Regularly talked with Business Analysts to implement changes that were needed to meet requirements and to implement new features.
- **Github** was used as source control throughout the project

Qualitrol Iris Power LP - Software Developer Assistant

Toronto

May 2019 - August 2019

- Helped develop efficient programs and firmwares for embedded systems that allow it to interact and update files simultaneously with the cloud, mainly programmed **Universal Windows Programs**.
- Used the **PRISM framework** to make the applications (utilized MVVM for all aspects).
- Implemented **MD5 algorithm** to generate unique file codes in order to check if the files were updated locally and in the cloud. Also had a report system that was implemented that passed or failed the chip based on parameters
- Shadowed the lead designer from development board to first prototype in the design of our new **FPGA** system.

PROJECTS - Portfolio (samvirdi.github.io)

DeltaHacks V - Mapped Ideas

Hamilton

January 26, 2019 - January 27, 2019

- Made a Web-Application that allowed users to post pin drops on a map to voice their concerns about their community.
- Implemented a **Node.js** backend that stored all of the data in **Firebase**
- Set up the database as an open API so that anyone can access the data and use it for their own applications.
- Excelled in a **collaborative** environment by creating a finished product in less than 24 hours at DeltaHacks

Angle Measurer

Hamilton

January 2019 - April 2019

- Semester long assignment which had a purpose of programming the **ESDUINO** micro-controller to use an accelerometer to measure the angle with reference to a flat surface.
- Utilized multiple important practices such as setting the ADC system accordingly and making sure the **Quanta** was in a perfect range to reproduce the signal from the DAC accurately.
- Implemented 3 linear approximations to make sure that angle readings from the accelerometer were as accurate as possible
- Mark Received: **94%**

References Available Upon Request