

University of Waterloo
Co-operative Work Terms

Suraj Patel
20849665

2B Computer Science, Honours, Co-operative Program

Work Term	Employer	Evaluation
May - Aug 2020	Ontario Ministry of the Attorney General Public Guardian and Trustee Toronto Ontario Canada System Support Officer (SSO) - Programmer	OUTSTANDING
Jan - Apr 2021	OkRx Divisional Office Oakville Ontario Canada Software Development Associate	

Planned Future Work Term(s)

Sep - Dec 2021
May - Aug 2022
Jan - Apr 2023
Sep - Dec 2023


Disclaimer: This evaluation does not constitute an employment endorsement or recommendation. Employer evaluations of student contributions and achievements during the work term are conducted as part of the University of Waterloo's Co-operative (Co-op) Education model. Like academic grades, overall evaluations are part of the assessment of a student's progress in the co-op portion of their degree studies. These assessments are completed using criteria set out by the University, not the employer, and do not reflect the employer's criteria or assessment metrics.


Suraj Patel

2B Honours Computer Science Student

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Technical Skills

Languages: C#[^] | C* | C++* | Java | Python | SQL[^] | Html[^] | JavaScript[^] | CSS[^] | Razor[^] | ARM*/x86/MIPS* Assembly Language | R* | Racket [Lisp]* | Turing [Pascal] | Bash*

Technologies: ASP.NET[^] | Azure[^] | Oracle Databases[^] | SQL Server[^] | Git[^] | Visual Studio[^] | Vim* | Linux* | Windows[^] | Unity | Arduino | SSRS[^]

Concepts: MVC[^] | Testing* | Data Structures* | Algorithms* | Complexity Analysis* | OOP*[^] | Functional Programming* | Design Patterns & Principles*[^] | ETL Pipeline[^] | Stored Procedures[^] | DB Repositories[^] | Memory Management* | Multiprocessing* | Pipelining* | Processor Design* | Assemblers* | Compiler Optimizations* | Linking & Loading* | Code Generation* | Parsing* | Text Processing* | RSA Encryption* | Digital Logic Design [Gates | PLAs | Memory | Finite State Machines]* | Graph Theory*

*Learned at Waterloo ^Coop Experience

Work Experience

Full Stack Developer – OkRx

January – April 2021

- Worked on tasks such as developing, refactoring, and debugging various features and pages of a **Web Service** for healthcare workers
- Used **Azure DevOps** to manage **Git** repositories and tasks discussed upon during daily team wide scrum meetings lead by the CEO
- Learned to put a greater emphasis on writing simple code due to the nature of working on a **Large MVC Codebase**
- Developed webpages using **ASP.NET** using **Razor** for the front end and **C#**, with database interactions via **Repositories**, for the back end
- Gained experience working in a task-based, **Work From Home, Start-Up** environment where communication was done via **MS Teams**

Software Developer – OPGT [Ministry of The Attorney General]

May – August 2020

- Completed various individual projects with 1 on 1 remote mentorship with the team lead
- Gained experience working in a **9-5 In-Person** environment with Covid protocols

Pay Statement Processing

- Single-handedly created a **Multi-Language Process** to extract Pay Statement data into a database and process it for a SSRS Report
- Developed a **Windows Service** with C# and .NET to monitor a network location for new files to validate and process in a database
- Utilised an **Event Watcher** to monitor a network location and the **Oracle Data Provider** to communicate between C# and a database
- Efficiently implemented this **ETL** process in **PL/SQL** by using **Global Temporary Tables** and **Scalar Subquery Caching**

Additional Experience

FIRST Robotics Competition – District Finalists

September 2018 – June 2019

- Worked as part of the **Student Run Team #6866** (The Space Invaders) to design, 3D model, build, and compete with a robot
- Collaborated with my team through **GitHub** during the process of designing the 3D model of the robot assembly with **SolidWorks**
- As a team, hosted workshops at public libraries to introduce and promote STEM to the youth in our community

YMCA Teen Night Council Member

July 2017 – June 2019

- Responsible for all the programs in the whole YMCA building for 3 hours a week as part of a **Council of Volunteers**
- In-charge of planning, setting up, and executing the activities for the night
- Gained leadership skills by being in-charge of an entire building full of high school students of the same age group

Projects

Breaker Duel – Android Game

January 2018

- Scripted custom physics using OOP concepts with C# for an Android Game co-developed using **Unity's** collaboration system
- Got familiar with **Google's Play Store** Console by publicly **Publishing The Game** for people to find and play

Awards & Achievements

March 2019 — FIRST Robotics Competition District Finalists

June 2019 — York Region Excellence In Mathematics Award

— Canadian Senior Mathematics Competition – Top 3%

January 2017 — Intro To Computer Science In Python – Certificate of Completion

[codehs.com]

UNIVERSITY OF WATERLOO

UNOFFICIAL GRADE REPORT

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Spring 2021

CS	240	Data Structures & Data Mgmt
CS	241	Foundations of Sequential Prog
CS	251	Computer Organization & Design
STAT	231	Statistics
MATH	235	Linear Algebra 2 (Hon Math)
Term Average:		N/A
		Decision:

Winter 2021

COOP	2	Co-operative Work Term	
PD	10	Professional Resp in Computing	CR
WKRPT	200M	Work-term Report	NG
Term Average:		N/A	
		Decision:	

Fall 2020

CS	245	Logic and Computation	64
CS	246	Object-Oriented Software Devel	74
ECON	212	Introduction to Game Theory	74
MATH	239	Intro to Combinatorics	79
STAT	230	Probability	70
Term Average:		72.2	
		Decision:	Good standing

Spring 2020

PD	11	Technical Writing	CR
COOP	1	Co-operative Work Term	CR
Term Average:		N/A	
		Decision:	

Winter 2020

PD	1	Career Fundamentals	CR
CS	136	Elem Alg Design & Data Abstrac	78
ECON	101	Intro to Microeconomics	79
MATH	136	Linear Algebra 1 (Hon Math)	72
MATH	138	Calculus 2 For Honours Math	81
PHYS	122	Waves, Electricity & Magnetism	69
Term Average:		75.8	
		Decision:	Good standing

Fall 2019

CS	135	Designing Functional Programs	92
MATH	135	Algebra for Hons Mathematics	60
MATH	137	Calculus 1 for Honours Math	77
PHYS	121	Mechanics	85
SEQ	2	Co-op Sequence 2	
SPCOM	100	Interpersonal Communication	73
Term Average:		77.4	
		Decision:	Good standing