

SANAT NAYAR

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Skills

PROGRAMMING LANGUAGES

-Java
-Python
-Javascript
-HTML/CSS
-React
-VBA
-SQL
-PHP

TECHNOLOGIES

-Docker
-PostgreSQL
-AWS DeepRacer
-NodeJS
-Android Studios
-Git
-ReactDND
-Android Studios
-Spring Framework

PROGRAMMING CONCEPTS

-Data Structures and Common Design Patterns
-Object Oriented Programming
-Unsupervised/Supervised Machine Learning Algorithms

Education

University of Ottawa Sept. 2017 to Current
BASC Computer Engineering and Entrepreneurship 2022
GPA : 3.83 / 4.0

Earl of March High School Sept. 2013 to June 2017

Coursera

-Project Management (UC, Irvine)
-Machine Learning (Stanford)
-CS-50 (Harvard)

Employment

Nokia

Network Services Platform (NSP) Software Developer Intern

Ottawa
May 2019 to Aug. 2019

- Worked on the Subscriber Management Web Module that shows Key Performance Indicators (KPIs) for routing infrastructure used by telecommunication vendors.
- Created a dashboard tool to customize KPI tiles based on user preferences.
- Used **React** and **Spring MVC** to do full-stack web development and gained familiarity with **Docker/Kubernetes** and the SNMP Networking Protocol.

Canadian Border Services Agency (CBSA)

Student IT Developer

Ottawa
Sept. 2018 to May 2019

- Worked on Human Resource and Recruiting Systems for CBSA. Migrating data on employees and prospects to a better interface using **Visual Basics** so it can be efficiently processed by HR employees.
- Improved search queries on large sets of data and creating small applications using VBA, Macros and Excel to combine databases and create charts.

Ottawa Sikh Society (OSS)

Full-Stack Web Developer

Ottawa
May 2018 to July 2018

- Designed and implemented a booking reservation system for OSS by modifying a Wordpress Plugin using **PHP** and a **Postgres** database system.
- Improved layout of website using **CSS** and **HTML** and integrated new Wordpress plugins to increase fluidity of website and improve user interface.

Projects

PresCrypto

Sept. 2019 to Sept. 2019

- Created a Web App using **React** and **NodeJs** that used a **Blockchain** model to create a de-centralized platform for secure communication between a doctor and a patient.
- Led team to win the **Best Project to use BlockStack API at Hack The North 2019**

Swappable: Student Startup

Sept. 2018 to Feb. 2017

- Created a platform which allows for Person-to-Person exchange of goods in local High Schools
- Used **Javascript, CSS and HTML** to make a full website and obtain a temporary domain
- Handled expenses using the **Square API** and implemented encryption for user data protection
- Gained valuable **leadership experience** while communicating and delegating tasks to members of the team and developed interpersonal and presentation skills by giving short pitches to potential investors.

BirdEYE

Mar. 2019 to Current

- Raspberry Pi Bird House module that uses **Watson Visual Recognition API** and **REST APIs** to recognize birds in a bird house and send pictures to phone using a **React Native** Application. Currently a work-in-progress.

Kaggle - West Nile Virus

May 2019 to Current

- Created a Kaggle Kernel using **Python** to show correlations between detection of West Nile Virus and various other categorical/numerical variables
- Using **TensorFlow, SciKit** and **Seaborn** Libraries to implement this data analysis.
- Used **Long Short-Term Memory (LSTM)** neural network to forecast future outbreaks of the virus in Chicago

RePear

Sept. 2018 to Jan. 2019

- Used **Java, Firebase and Android Studio** to build a home service android application that allows service providers and home owners to connect
- Used the **MVC Architectural Pattern** to implement application functionalities.

Awards

Top 3 Pitch for App Ideation at SparkFest 2018

InvestOttawa

3-time Dean's Honour List

University of Ottawa

Certificate of Excellence in Business and Entrepreneurship (2017)

Earl of March Secondary School

CEMC Waterloo Math Contest top 10% in World and 1st at High School (2015- 2016)

University of Waterloo

Certificate of Outstanding Achievement in Information Technology (2016)

Earl of March Secondary School

Other Related Experience

Treasurer · IEEE UOttawa

May 2019 to Current

Events Coordinator · Software Engineering Student Association (SESA)

Sept. 2018 to Current

University Delegate · Canadian University Software Engineering Conference (CUSEC)