

# Sanat Nayar

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## EDUCATION

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- **University of Ottawa** Ottawa, Canada  
*Bachelors in Computer Engineering, Engineering Management Option; GPA: 3.80/4.0* Sept. 2017 – Present

## SKILLS

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**Languages:** Python, Java, JavaScript, Golang, MatLab, SQL

**Technologies:** Git, React, Kubernetes, AWS, TensorFlow, GCP, NodeJS, Android Studios, Hadoop, Kafka

**Certifications:** Certified Data Scientist - Tableau, QlikSense Business Analyst, AWS Cloud Associate (in-progress)

## WORK EXPERIENCE

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- **Qlik** Kanata, ON  
*Software Engineering Intern* Jan 2020 - May 2020
  - Worked with **Kubernetes**, **Helm Charts** and **Golang** to deploy micro-services for Business Intelligence (BI) applications
  - Developed a **AI ChatBot** using Rasa NLU and the Slack API to assist users in making modifications to their custom resources deployed in Kubernetes Clusters
  - Worked with Data Analytics tools in Qlik Sense to create visualizations of event metrics to help make data-driven decisions on Application accessibility
  - Developed the **QlikSense Operator** using the Operator-SDK which uses the **Kubernetes API** and Kubernetes Control Loop to automate and simplify the deployment process to **GCP** and **AWS EKS**
  - Implemented the **Levenshtein Distance Theorem** as a string metric for recommendations to users installing BI Tools
- **Nokia** Ottawa, ON  
*Full-Stack Software Engineering Intern* May 2019 - Aug 2019
  - Worked on the Subscriber Management Web Module that shows Key Performance Indicators (KPIs) for routing infrastructure used by telecommunication vendors.
  - Designed an alarm filtering system using **React** and **Spring Framework** that filters and displays alarms in the Alarm KPIs outputted from network routers.
  - Created a dashboard tool to customize KPI tiles based on user preferences.
  - Gained familiarity with containerization techniques with **Docker/Kubernetes** and the **SNMP Networking Protocol**.
- **Canadian Border Services Agency (CBSA)** Ottawa, ON  
*Data Engineering Intern* Sep 2018 - Apr 2019
  - Worked on Human Resource and Recruiting Systems for CBSA. Migrated data on employees and prospects to a better interface using **VBA** so it can be efficiently processed by HR employees.
  - Improved search queries on large sets of data and used **Macros** and **Excel** to create charts and **data visualizations**.

## ACADEMIC RESEARCH AND PROJECTS

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- **Cancer Lesion AI Research Project:** Creating an AI/Computer Vision application under the supervision of Dr. Ran Klein that detects Liver Cancer lesions in Positron Emission Tomography (PET) scans. Using MatLab and the VGG16 Classifier. **(Jan 2020 - Present)**
- **Blood Test Analyzer:** Web Dashboard application that uses Optical Text Recognition through the Google Cloud Vision API to display data visualizations of blood test results. Made using React, NodeJs, GCP. **(Jan 2020)**
- **PresCrypto:** Created a Web App that uses a Blockchain model to create a de-centralized platform for secure communication between a doctor and a patient. Uses React, NodeJs and the BlockStack API **(Sept 2019)**
- **Swappable: Student Startup:** Created a platform which allows for Person-to-Person exchange of goods in local High Schools. Was the VP of FinTech and created a process to handle expenses using the Square API. Gained valuable leadership experience while communicating and delegating tasks to a team of 15 students. **(Sept 2017 - Sept 2018)**

## ADDITIONAL EXPERIENCE

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- **2-Time MLH Hackathon Winner:** Google Cloud Platform Category Winner at UOttHack 2020 and BlockStack API Winner at HackTheNorth 2019
- **Treasurer** Ottawa, ON  
*IEEE UOttawa* Sept 2020 - Present
- **VP of Events** Ottawa, ON  
*Software Engineering Student Association (SESA)* Sept 2020 - Present
- **Top 3 Pitch for App Ideation at SparkFest 2018** Ottawa, ON  
*Invest Ottawa* Sept 2018