

# SYLVESTER RANJITH FRANCIS

+1(548) 333-4865 ◇ Waterloo, ON

[sylvesterranjithfrancis@gmail.com](mailto:sylvesterranjithfrancis@gmail.com) ◇ <https://www.linkedin.com/in/sylvesterranjith/> ◇ [www.sylvesterranjithfrancis.com](http://www.sylvesterranjithfrancis.com)

## OBJECTIVE

---

A problem solver with 5 years of varied experiences in Application Development, Python Scripting, and Automating tasks. Dedicated to providing optimized solutions. **Seeking full-time Software Development roles.**

## EXPERIENCE

---

### Network Analyst Co-op

*Sept 2022 - Dec 2022; Sep 2021 - Dec 2021*

Descartes Systems Group

*Waterloo, ON*

- Automated processes related to Network Monitoring, utilising Python, Ansible and SolarWinds Orion DB to generate statistical reports for both NA and EMEA regions.
- Worked with devices from different vendors like Cisco, Juniper, Checkpoint and Moxa.
- Wrote many CRON jobs to automate generating reports from device statistics using different modules from Ansible and Python.
- Demonstrated Excellent Work Ethic, Organisational skill, Team ethic, and prompt delivery of tasks assigned.
- Continued with monitoring and maintaining previously migrated functionality from Ansible to Ansible Tower.
- Implemented Role-based access control and created multiple plugins and modules for the purposes of automating tasks.

### Network Analyst Part-time

*Jan 2022 - Aug 2022*

Descartes Systems Group

*Waterloo, ON*

- Responsible for maintaining and performing modifications of the automation tool built for the Network team.
- Initiating a migration effort of an existing tool to Ansible Tower and Architecting the migration effort to Ansible tower.
- Responsible for on-boarding, training, and mentoring a new co-op student with the common tools and best practices used in the organization.
- Planning an initiative for a proof of concept utilizing Logic Monitor as a primary monitoring tool for the network team's automation efforts.

### Software Development Intern

*Jun 2019 - Mar 2020*

Valeo India Pvt.Ltd

*Chennai, India*

- Developed traceability tool to automate time consuming tasks, using Python, Qt and several other analysis and parsing techniques resulting in a 75% efficiency increase.
- Built an Object Detection model using TensorFlow Object Detection API capable of running on an embedded Renesas Processor.
- Coordinated with teams from Cairo Research center, understood their workflows and developed automation tools customized for their day-to-day use.

### Technology Consultant

*Jun 2016 - May 2019*

Sathya Technosoft Pvt.Ltd

*Chennai, India*

- Migrated the existing services to AWS and Azure-based solutions, optimizing the workflow of several clients.
- Developed and maintained multiple Android applications utilizing Kotlin as the primary programming language.
- Built and was responsible for architecting cross-platform web applications based on MERN Stack, following the best practices.
- Designed multiple user interface modules whilst following the design guidelines provided by both Google and Apple in their respective developer guides.

## EDUCATION

---

### Conestoga College

Waterloo, ON

- Post Graduate Certificate (Co-op), Big Data Solutions Architecture *Jan 2022 - Dec 2022(Expected)*
- Post Graduate Certificate (Co-op), Computer Application Security *Jan 2021 - Dec 2021*

### VIT University

Vellore, India

- Masters, Computer Science and Technology *Jul 2018 - Jun 2020*

### Anna University

Chennai, India

- Bachelors, Computer Science and Engineering *Aug 2012 - Apr 2016*

## SKILLS

---

### Programming Languages

Python,Java,Kotlin,C#, ASP.Net MVC.

### Data Analysis Tools

Hadoop,Hive,Pig,Sqoop,Spark,Kafka.

### Automation and Monitoring Tools

Ansible,Ansible Tower,Logic Monitor.

### Databases

MongoDB,CouchDB,Cassandra,MySQL,Firebase,Redis,Orion SWDB.

### Web Development

HTML,CSS,JavaScript,Bootstrap,ReactJS,Angular,Node.js.

### Application and Virtualisation Tools

Visual Studio,Android Studio,Github,VirtualBox,VMware,Vsphere.

### Deployment Platforms

AWS,Azure,GCP,Linode,Heroku,Openshift

### ML Frameworks

Scikit-learn,Tensorflow,Dialogflow,Pytorch and Keras.

### Operating Systems

RHEL,Mac OSX,Windows,Android,Kali Linux.

### Other Tools

Git,Bitbucket,Trello,Asana,Jira,LaTeX.

## PROJECTS

---

**Customer Purchase Patterns.** Built a tool to analyze customer records from a popular appliances store, to predict various purchase patterns and trends utilizing different machine learning algorithms. ([View it here](#))

**Transfer Learning Demo** Built an image classifier to demonstrate the relevance of transfer learning and its applications to the class of 2022 Big Data Solutions Architecture.Utilized TensorFlow Object Detection API and SSD-mobilenet model to build the classifier.([View it here](#))

## ACADEMIC ACHIEVEMENTS

---

- Graduated with honors - High Distinction for Computer Application Security.(Conestoga College)
- Mentored fellow masters students along with PhD scholars conducting sessions on Python and ML algorithms.(VIT University)
- Received a letter of Appreciation for spearheading an industrial project with TVS India PVT.LTD. (VIT University)

## PUBLICATIONS

---

- Predicting the Existence of Brain Tumour in MRI Images by Applying FCNN Published in July 2020. ([Read it here](#))

## CERTIFICATIONS

---

- Amazon Cloud Certified Practitioner - Valid till Jun 2023