JASMAN SAHI

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Skills

LANGUAGES

C/C++

Python

Java

JavaScript

Lua

SQL/MySQL/SQLite

VBA

BASH

Assembly

VHDL

Verilog

NoSQL

Kotlin

Golang

TECHNOLOGIES

C/C++ in Unix environment

Eclipse Development

RISCV architecture

Flask

Nodejs

Truffle Suite

PowerApps

Diptrace

Eagle

Reactjs

MatLab

Git

Modelsim

Docker Firebase

Mongodb

Android Studio

Jupyter Notebook

PowerBI

Hadoop/Spark

Relevant Courses

System Programming and Concurrency, Algorithms and Data Structures, Compliers, Probability theory and statistics, Numerical Methods, Database Systems, Computer Networks, Real time Operating Systems, Distributed Systems, Reinforced Learning

Employment

Cognizantly inc.

Software Developer

- Developed a full-stack app to display behavior analytics of traders using Plaid API with ReactJS and Flask
- Designed the app's flow and backend architecture with **Firebase Realtime Database** and containerized with **Docker**
- Cleaned trading data then applied financial algorithms using Jupyter notebook to display financial trends
- Set up the structure for Kubernetes using Okteto's services to enable a wider variety of testing

Nuclear Promise X

Jan. '20 - Apr. '20

Sep. '20 - Dec. '20

Nuclear Software Developer

- Created Full Stack applications using Powerapps with Sharepoint/MSSQI and Reactjs with Flask/Nodejs
- Designed a Java Rich Client Application using SWT libraries to generate and log documentation files
- Created predictive scripts using Natural Language Processing (Lemmatization and Word-Encoding)
- Automated testing using RPA bot with UIPath to reduce testing time by 60 %
- Developed and presented an initial Etheruem supply chain Dapp using truffle suite with Nodejs

National Bank Financial

May '19 - Aug. '19

Electronic Trading IT Analyst

- Developed Python scripts for automation using Selenium and extracting/manipulating data
- · Created multiple PowerShell scripts to automate tasks and expand past scripts
- Constructed several MySQL/SQLite queries and improved performance of existing queries
- · Created Excel Macros in VBA to improve efficiencies in banking procedures and document processing

Waterloop Design Team

Jan. '19 - Apr. '19

Electrical Sub Team Member

- Used Eagle to create the schematic and board layout for an Arduino shield used in the pod
- Assisted in carrying out battery testing to ensure device information and usage was correct

TD Bank Sep. '18 - Dec. '18

Automation Controller/Access Analyst

- Created a database in Access using SQL and VBA to log process changes improving communication
- Optimized scheduling of processes by creating Python scripts to increase efficiency
- Created functions using Blue Prism to automate various bank-related tasks
- Wrote test cases for processes along with testing additional processes

National Research Council Canada

Jan. '18 - Apr. '18

Application Developer

- Developed a web application using HTML, CSS, and JavaScript (BootStrap) to display information
- Created Java classes for the MySQL backend
- Created MySQL Queries to pull and save data to be used in the dashboard and other processes
- Conducted a Functionality Analysis of a Data Acquisition Server Device using TCP to command line

Projects

Stock Predictor

• Created a deep learning model with **LSTM** to predict stock values using data from the alpha vantage API, in **Jupyter Notebook** with **Keras** and **Tensorflow**

Information Dashboard

- Full-stack using **Reactjs** for the front end and **Flask** for the backend
- Used Reddit API and Open Weather API to fetch information about the weather and selected subreddits

PDF Data Mining and Budgeting Analysis Script

- Mined data from banking PDFs using Regex and then organized it into a Pandas data frame
- Data cleaned and processed using **TFIDF** and **Vectorization** on names to be able to predict expenditures category in **Jupyter Notebook**
- predicted an expenditure's category with **Random Forest Classifier** and analyzed using **Matplotlib** and summations for personal budgeting

Internet Traffic Analysis and Organization

- Designed an Entity-Relationship model in 3nf normalization for internet traffic datasets in MySQL
- Analyzed data in **Jupyter Notebook** to predict the type of attacks occurring using a **DecisionTreeClassifier** model

Education