

Jasman Sahi

EXPERIENCE

CANADA STARTUP COMPANY | FULL-STACK DEVELOPER SEPT 2021 - DEC 2021

- Utilizing **React Native**, **MongoDB** and **Flask** developed a restaurant review app
- Built Dapp for storing and distributing records using **Hyperledger Fabric** with **NodeJS**, **ChainCode** smart contracts and a **ReactJS** frontend
- Developed an email plugin to generate automatic responses using a **NLP** model trained using **Pytorch** to categorize emails, **SQL** and **ReactJS**
- Communicated the market fit and functionality of the projects with executives from various departments

POIZE WEALTHTECH (COGNIZANTLY INC.) | SOFTWARE DEVELOPER SEPT 2020 - DEC 2020

- Developed a full-stack app to display behavior analytics of traders using Plaid API with **ReactJS**, **Flask** and **Firestore Realtime Database**
- Designed the app's flow and backend architecture which was containerized with **Docker** and had the **Kubernetes** deployment
- Utilized trading data to simulate the disposition effect using **Jupyter Notebook**

NUCLEAR PROMISE X | NUCLEAR SOFTWARE DEVELOPER JAN 2020 - APRIL 2020

- Created full-stack applications using Powerapps with Sharepoint/**MSSQL**, **Reactjs** with **Flask/NodeJS** and a **Java** Application using SWT libraries with **MSSQL**
- Created predictive scripts using **NLP** Techniques (Lemmatization and Word-Encoding) in **Jupyter Notebook**
- Developed an initial Ethereum supply chain Dapp using **Truffle** suite with **Nodejs**

NATIONAL BANK FINANCIAL | ELECTRONIC TRADING IT ANALYST JAN 2017 - JAN 2019

- Automated multiple processes using **VBA** macros, **PowerShell** and **Python** Scripts using **Selenium**, **Pandas** and various libraries for data extraction/manipulation
- Constructed and improved **MySQL/SQLite** queries

TD BANK | AUTOMATION CONTROLLER/ACCESS ANALYST JAN 2017 - JAN 2019

- Improved Communication using **Access**, **SQL** and **VBA** to create a app to log automation changes
- Automate internal banking tasks using **BluePrism** and **Python** scripts along with writing and conducting tests reducing manual work by **10%**

NATIONAL RESOURCE COUNCIL CANADA | APPLICATION DEVELOPER JAN 2017 - JAN 2019

- Created a dashboard for facilities usage using HTML, CSS, and **JavaScript(Bootstrap)**
- Created **MySQL** queries for the dashboard along with **Java** Classes for storing data

PROJECTS

DEEP REINFORCED LEARNING FOR PONG GAME | PYTHON, OPENAI GYM

- Trained **RNN** models for a pong volley game using a variety of models (**DQN**, **Q-Learning**, **Actor-Critic** and **Sarsa**) using the **OpenAI Gym** framework

INTERNET TRAFFIC ANALYSIS AND ORGANIZATION | PYTHON, MYSQL, SKLEARN

- Designed an ER model with **3nf normalization** for an internet traffic data sets in **MySQL** and predicted the type of attack using a **DecisionTreeClassifier** model

INFORMATION DASHBOARD | FLASK, REACTJS

- Full-Stack app using **Flask** and **ReactJS** with Reddit and Open Weather API to fetch relevant information for the dashboard

CONTACTS

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SKILLS

PROGRAMMING

Python • Java • C • C++
JavaScript • SQL • NoSQL
Golang • Scala • Lua • Kotlin
Rust • Verilog • Assembly
VHDL • VBA • BASH

LIBRARIES/Frameworks

Nodejs • Flask • Reactjs
React Native • Truffle Suite
Django • Jupyter Notebook
Pytorch • TensorFlow • Sklearn
Hyperledger Fabric • Hadoop
Spark • Thrift • Zookeeper
Kafka

TOOLS/PLATFORMS

Eclipse • Unix environment
NoSQL • MySQL • MongoDB
Firestore • Docker • Git
MatLab • Diptrace • Eagle
PowerBI • Android Studio

EDUCATION

UNIVERSITY OF WATERLOO
B.A.Sc. in Computer Engineering
2017 - 2022

RELEVANT COURSES

System Programming and
Concurrency
Algorithms and Data Structures
Compilers
Database Systems
Computer Networks
Distributed Systems
Reinforced Learning
Programming for Performance
Autonomous vehicles
RTOS