






Rushil Patel

 ruspatel.github.io
 LinkedIn
 ra8patel@uwaterloo.ca
 647-928-1548
 GitHub

EXPERIENCE

Full Stack Developer — Canadian Sheep Federation

July 2020 – Sept 2020 (Remote)

- Designed and developed a **Blockchain Web Application** for sheep farmers across Canada in order to digitize the event logging process
- Developed a user compassionate **React Frontend** consisting of an onboarding carousel and multiple dashboards for various event reporting
- Developed an **Express REST API** backend utilizing a **MongoDB database**
- Implemented a backend blockchain framework with **Web3 API** in order to create a ledger of records on the **Ethereum** network
- Tested **CRUD API endpoints** with the **Postman** framework
- Enhanced code quality and coverage by adding **linter** and **unit tests**

QA Developer — Clearbridge Mobile

Sept 2019 – Dec 2019 Toronto, Canada

- Utilized **Java** and **Appium framework** to automate test packages for **Crohn's and Colitis Canada** and **OCAS** mobile apps
- Automated **regression test cases** which reduced manual testing by 60% for both **Android** and **iOS** platforms
- Conducted **exploratory/regression** API testing with the **Postman** framework
- Collaborated with product managers, developers and clients to reduce defects in successive app builds within an **Agile** development environment
- Utilized tools such as **Git**, **Jira** and **Firebase** in a **macOS** environment

Security Analyst — Economical Insurance

Jan 2019 – Apr 2019 Waterloo, Canada

- Utilized **MySQL** to query internal employee records to mitigate human error in data entry
- Designed and implemented a process improvement in daily reporting by querying data in **IBM Mainframe**
- Increased personal identity access awareness for over 200 internal employees as a **security ambassador**

EDUCATION

University of Waterloo

Sept 2018 – Apr 2023 Waterloo, Canada

BASc. Honours Computer Engineering, Co-op

Relevant Courses: Algorithms & Data Structures, Systems Programming & Concurrency, Discrete Math, Digital Computers, Embedded Systems

SKILLS

Languages:

- C++/C
- Python
- Java
- JavaScript
- MATLAB
- HTML

Technologies/Frameworks:

- Linux
- React
- Express
- MongoDB
- Postman
- Appium
- MySQL
- Jira
- TensorFlow
- Keras
- Matplotlib
- Pandas

PROJECTS

City Route Navigator

| C++ | Dijkstra's Algorithm |

- Implemented Dijkstra's Algorithm to find shortest path between 2 cities
- Designed graph data structure as an adjacency matrix

Titanic Prediction Model

| Python | TensorFlow | Keras |

- Created a deep learning model which can predict a passenger's survival rate based on various factors
- Implemented Early Stopping callback to prevent overfitting
- Utilized one-hot encoding method to convert categorical data to numerical data

Reflex Timer

| RISC-V | Altera FPGA |

- Created a Reflex meter to measure human reaction time
- Utilized push button peripherals on an Altera FPGA
- Performed bit manipulation to display the reaction time as an 8-bit number on LEDs