Sahal Sajeer Kalandan

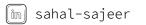
University of Waterloo BMath Student



sahalsajeer.github.io



25ohms





ssajeer@uwaterloo.ca

EXPERIENCE

FEELY CORP | FULLSTACK DEVELOPER

Sept 2022 - Dec 2022 | Waterloo, Ontario

- → Helped deploy a web application to enable distribution of local services using a stack of NodeJS, Angular, TypeScript, HTML/CSS and PostgreSQL
- → Designed custom login with Facebook API on TypeScript to help users register, login and change password. Styles were imported from templates designed on
- → Implemented Azure AD B2C support to help securely store user information on Microsoft servers

PERASO TECHNOLOGIES | AUTOMATION SOFTWARE DEVELOPER

Sept 2021 - Dec 2021 | Waterloo, Ontario

- → Researched a **NodeJS** solution to refactor **C++** testing APIs, allowing for asynchronous testing which increased host utilization on tests by 4 times
- → Created and improved reliability of drivers for **50+** 5G dongles and hosts, written using Native Extensions and QT Engine 5
- → Identified 100+ vulnerabilities in different host frameworks and builds of 5G dongles using WAF scripts

IAAF WORLD CHAMPIONSHIPS | SALES ASSOCIATE (VOLUNTEER)

Sept 2019 - Oct 2019 | Doha, Qatar

- → Sold and processed over **11,800** tickets using Excel to managing financial data for the competition
- → Led a team of 10 to manage a ticket stall during events

PROJECTS

CREDIT CARD FRAUD DETECTION 2023

- → Trained a ML model using the **K-nearest neighbors** approach on **Python** using scikit-learn to be able to determine if a credit card transaction was fraudulent from a dataset provided by Scotiabank during a competition
- → Utilized 89,230 different credit card transactions each with 175 features to train the model. Implemented different encoding methods and PCA to improve model accuracy and reduce overall noise
- → Retained a macro average F1-score of **80** percent. Placed in top **20** teams.

KINDKART 2021

- → Chrome extension built using HTML, CSS, JavaScript, and Google Firebase
- → Provided users with ethics reports on major online retail and exclusive coupon donations

ENCOURAGE BOT 2021

- → Discord Bot developed in JavaScript using Discord.js framework and MySQL
- → Recognizes negative words from users and outputs encouraging statements using ZenQuotes API

ABOUT ME

3rd year Waterloo Math student with a specialization in statistics. Enjoys working with data, making music and skateboarding. Dislikes TikTok.

SKILLS

PROGRAMMING

Java • HTML/CSS • JavaScript • TypeScript • Python • C • C++ • JavaScript • R • SQL • PostgreSQL

LIBRARIES/FRAMEWORKS

¡Query • Node.js • Jekyll • React • Angular

TOOLS/PLATFORMS

Git • Gulp • Perforce • Jira Docker • Linux/Unix

EDUCATION

UNIVERSITY OF WATERLOO

BACHELOR'S IN HONOURS **MATHEMATICS** Sept 2020 - Present | Waterloo, Ontario Faculty of Mathematics

Relevant Courses:

Linear Algebra, Calculus 3, Applied Linear Models, Introduction to Combinatorics, Computational Statistics and Data Analysis (in R)

AMERICAN SCHOOL OF **DOHA**

Aug 2008 - May 2020 | Doha, Qatar Full AP Capstone Student

REFERENCES

Available upon request