Muhammad Zaheer Hashmi

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GitHub
https://github.com/zaheerhashmi

Skills

Tools: MS Excel, Tableau, Alteryx**,** Git, Linux, MATLAB, NetBeans IDE, GNU debugger, GitHub,Microsoft Visual Studio, FPGA, TCP/IP, Microsoft Teams
Languages: C++, C, Python, Assembly, Verilog, PostgreSQL

Work Experience

Senior Technical Student – Toronto Hydro | Sept 2021 – Aug 2022

- Reduced time required to post process projects by 75% by locating, analyzing, and automating relevant data sets using Excel, Tableau and Alteryx
- Defined general queries regarding electrical equipment into specific data problems thereby enabling data analysis
- Presented results of performed data analysis by creating PIVOT Tables, Tableau Dashboards, and Excel charts thereby facilitating engineering decisions to improve system reliability
- Prepared project documentations and cost estimates for electrical asset replacement according to provincial legislation, electrical and civil standards

Projects

Flight Booking Database | PostgreSQL, GIT, Java

- Wrote queries for an airplane flights database to retrieve flight capacity information
- Implemented a flight booking and seat upgrade program using Java and PSQL by making calls to the JDBC API

EazyMaps – GIS Application | C++, GTK, OpenStreetMap API, GIT, Linux

- Implemented features like intersection highlighting, tutorial box and colour scheme using the GTK GUI library
- Implemented Dijkstra's path finding algorithm for location searching
- Collaborated with others to implement a mapping software using C++ with GTK APIs to design the GUI

Text Conferencing Application | C, Unix Sockets API, VSCode, GIT, TCP, Linux

- Implemented a "chat conferencing" application using C and Unix Sockets API's stream sockets
- Implemented multithreaded on the client side for efficiency
- Extended application functionality by implementing invitation functionality

Diabetic Retinopathy Detection | Pandas, Pytorch, Python

- Designed a deep learning model using Convolutional Neural Networks (CNNs) for diabetic retinopathy detection in Pytorch
- Identified suitable datasets and preprocessed them for model training using Pandas

Education

University of Toronto | Electrical Engineering (BASc) 2017 - 2023

Relevant Courses: Applied Fundamentals of Deep Learning, Introduction to Machine Learning, Probability and Applications, Linear Algebra, Engineering Economic Analysis, Programming Fundamentals