

DERIN YILMAZ

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Education

Western University

Sep. 2020 – May 2024

Bachelor of Engineering, Software Engineering with a minor in Mathematics

London, ON

Relevant Coursework

- Data Structures
- Algorithms Analysis
- Artificial Intelligence
- Web Technologies
- Computer Applications
- Database Management
- Project Management
- Computer Networking

Experience

Wired Solutions

May 2022 – December 2022

Junior Software Developer

Windsor, ON

- Developed a natural language processing (NLP) model for predicting the subject of a course based on the course description using the Spacy library in Python
- Collaborated with a team to develop the frontend of a new LMS website to allow students to create drafts of their future schedules.
- Trained an NLP model that would analyze thousands of insurance documents to determine which insurance plans would be most optimal for unique individuals.
- Revised and cleaned up code for the portal of the LMS website using C# (.NET) and Angular, bug-tested the key features of the website and documented any issues that arose.

Eagle Truck Driving School

May 2021 – August 2021

Web Designer

Windsor, ON

- Designed and developed a website which displayed the information about the school and the services they provided.
- Created an automated email service where any user can contact the admin regarding any questions/inquiries they had about the school.
- Practiced strong communication and project management skills by frequently collaborating with clients to ensure all requirements were being met.

Projects

Text Classification Model, NLP Machine Learning | Python, Jupyter Notebook

October 2022

- Developed and trained a natural language processing model to predict the subject of a university course based on the course description.
- Utilized the Python library pandas to read and access the courses from the custom dataset that was created by datamining numerous websites.
- Utilized sklearn and Spacy to train an NLP model with samples from the custom dataset and then test the model to measure precision and recall.
- Implemented a feature that prompts the user to test the precision of the model by inputting custom course description samples and accurately predicting the subject of the sample course description.

Music Player | MongoDB, Express, React, NodeJS, AWS

November 2022

- Created a music player app that collects and presents information on several tracks, artists and albums which were all stored on a MongoDB database collection.
- Allowed users to create custom playlists with the ability to add tracks to this playlist, as well as leaving reviews on other playlists if the user was logged in.
- Connected the server to the Google Authenticator, allowing users to login with their Gmail/Google accounts

Car Dealership Database | MySQL, Express, React, NodeJS

April 2022

- Designed a sample car dealership system using JavaScript to simulate the common functions of a franchise car dealership tracking thousands of unique cars available throughout each individual dealership.
- Create complex SQL queries that allows the user to create requests and update relevant data about the cars.
- Implemented object-oriented programming practices such as inheritance to create different databases for different users.

Hydra Head, Mouse Clicker | Java, JavaFx

December 2021

- Designed an application using Java and JavaFx Scene Builder to simulate a mouse-clicker arcade game.
- Used JavaFX to create a GUI that supports actions such as deletion of a hydra head with a mouse click, dynamic spawn of hydra heads, and implemented object-oriented principles increase the difficulty as the game progressed.

Technical Skills

Languages: Python, Java, C#, HTML/CSS, JavaScript, SQL

Developer Tools: MongoDB, VS Code, Jupyter Notebook, Amazon Web Services

Technologies/Frameworks: .NET, NodeJS, React, GitHub, Angular, Azure DevOps, Unity