Jaskaran Dhaul

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Education

University of Victoria Victoria, BC
BS Computer Science *Sept. 2019 – Aug 2024*

Relevant Coursework *Software Development Method, Algorithms and Data Structures, Computer Communications and Networking*

Experience

Programmer Analyst Jan 2023 – Present, May 2022 – Aug 2022
BC Ministry of Transportation and Infrastructure *Victoria, BC*

- Developed and maintained various plugins for a web map application using JavaScript, jQuery, CSS, and HTML
- Utilized REST APIs to communicate with the backend and transfer configurations between development, testing, and production environments
- Collaborated with the team to identify and solve technical problems, troubleshoot and debug code
- Tested and documented the code to ensure high-quality and maintainable software

Projects

AI Imagery | *React, NodeJS, Express, MongoDB, TailwindCSS*

- Designed and developed an AI image showcase tool using React and OpenAI API to allow users to showcase their AI-generated images to the world.
- Utilized OpenAI's API endpoint to generate images with deep learning models that have never been seen before, providing an innovative and exciting experience for users.
- Integrated MongoDB to store user-generated image links and usernames, providing a reliable and scalable database solution for the application.

Crypto Notifier | *Python, MongoDB*

- Designed and implemented a price alert project using Discord, MongoDB, and Coinbase API to create real-time price alerts for various cryptocurrencies.
- Built a MongoDB database to store user preferences, including their chosen cryptocurrencies and desired alert thresholds.

ML Artwork | *NumPy, Pandas, TensorFlow*

- Used Convolutional Neural Networks (CNNs) and Residual Neural Networks (ResNets) to identify historical painting authors by analyzing brush strokes, colour choices, and overall style.
- Conducted an evaluation of the models' performance on a test dataset. Analyzed metrics such as accuracy and precision. Compared these results to previous studies in the field.

Technical Skills

Languages: Python, C++, JavaScript, HTML/CSS, TailWindCSS
Frameworks: React, Node.js, Jest
Developer Tools: Git, Gitlab, SVN, Visual Studio Code
Libraries: Pandas, NumPy, Matplotlib, TensorFlow