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Technical Skills

- Python, C++, C, & JavaScript
- Software development: HTML, CSS, NodeJS
- AI engineering
- Assembly & MATLAB
- Game Development: C# & Java
- Balsamiq and Figma

Technical Projects

Technologies Used
Figma & Balsamiq

UI Interface Design Jan – Mar 2024
User Interface Design (CMPT 363 at SFU)

- Designed a user-focused interface for a student event planning app using Balsamiq for initial wireframes and Figma for high-fidelity prototyping.
- Conducted comprehensive user interviews and market research to inform the design process, allowing for the integration of features tailored to the unique scheduling needs of students.
- Implemented a user-centered design approach to create a functional app.

Technologies Used
Linux, C, Makefile, POSIX Thread

Communication Software in Linux Sep – Dec 2023
Operating Systems (CMPT 300 at SFU)

- Programmed a communication software on Linux with C, and using Makefiles to automate compilation.
- Integrated advanced thread programming to handle multiple communication sessions simultaneously.

Technologies Used
MongoDB, Node.js, Docker, HTML, CSS, Typescript

Front-end and Back-end Project May – Aug 2023
Server-Side Development (CMPT 372 at SFU)

- Implemented Docker to containerize the application, ensuring consistent deployment across different environments and simplifying the setup process for developers and in production.
- Incorporated MongoDB to serve as a backend Database.
- Utilized Node.js for webpage architecture.
- Programmed in HTML, CSS and Typescript to design a responsive webpage interface.

Technologies Used
TensorFlow, Python

Machine Learning: Image and Data Analysis Jan – Apr 2023
Biomedical Computing (CMPT 340 at SFU)

- Utilized TensorFlow, a leading open-source machine learning framework, to develop a sophisticated deep learning model capable of analyzing 500 distinct dog images.
- Trained models to correlate specific visual cues with VHS scores, aiding in early detection and prevention strategies for canine heart conditions.
- Implemented image resizing, normalization and augmentation for the model to be trained on a diverse dataset.

Personal Project

Technologies Used
TensorFlow, Python, Keras, NumPyseq2seq models, Twitter Database

Generative Chatbot Jan – Mar 2024

- Developed an open-domain generative chatbot utilizing seq2seq models, trained on a dataset of Twitter conversations on various topics to simulate real dialogues.
- Programmed the chatbot using Python, TensorFlow, Keras, and NumPy, ensuring seamless integration and high performance.
- Continuously refined the chatbot through iterative training and feedback, significantly improving its conversational accuracy and user engagement.

Education

Bachelor of Applied Sciences in Computing Science May 2020 – Ongoing

- Simon Fraser University, Burnaby BC

Interests

- Gym
- Music
- Volleyball