Yael Lyshkow

Location: Toronto, ON
Portfolio: https://yaellysh.github.io
Email: yaellyshkow@outlook.com
Phone: 437-423-9235

Experience

DesAcc NA Inc. — Data Processing & UI/ UX Intern
MAY 2023 - SEP 2023

· Transformed diagnosis text files into structured JSON, optimising data manipulation and storage
· Developed a user-friendly UI in Python for healthcare professionals to identify and label conditions in over half a million diagnosis documents
· Created a large, classi fied dataset to train AI models for extracting and labelling diagnoses from unstructured text
· Maintained data accuracy, contributing to the successful deployment of AI tools in clinical settings
· Handled and processed sensitive health data with strict adherence to HIPAA regulations, guaranteeing data protection and con fi dentiality throughout the project

DesAcc NA Inc. — Software Intern
MAY 2024 - SEP 2024

· Developed a pipeline to convert sequences of 2D Cartesian images into 3D DICOM files for enhanced medical imaging applications in Python
· Implemented algorithms for accurate spatial alignment and volumetric reconstruction, ensuring high fidelity in the resulting 3D models
· Continuously optimised the process to handle large datasets e ffi ciently while sustaining data integrity and compliance with medical imaging standards
· Worked with DICOM viewers such as Weasis, 3D Slicer, and OsiriX to validate and visualise the generated 3D DICOM files

Projects

COVID Image Conversion
· Used Machine Learning for Rapid Identification of COVID Sequence Sub-Type from Genomics Data transformed into images with over 95% accuracy

Tier List Creator
· Developed the UI and integrated an application for creating tier lists, focusing on adhering to the SOLID principles and Clean Architectures.
· Utilised the ChatGPT API to allow for personalistion

Tetris
· Created a Tetris game in MIPS Assembly, implementing features like gravity and music while adapting to the complexities of the Assembly language

Education

University of Toronto
HONOURS BACHELOR OF SCIENCE
SEP 2022 - PRESENT

· Computer Science (Specialist)
· Mathematics and Classical Civilization (Minors)
· Current CGPA 3.91

Skills

Techinical

· Python, Java, C, HTML, CSS, JavaScript, NodeJS, React, RestAPI
· GIT, LaTeX, Microsoft Office Suite
· DICOM, JSON, XML, FASTA
· Data structures, multivariable calculus, software development in teams

Analytical

· Data manipulation, volumetric reconstruction, AI model training

Awards & Cetrifications

·University Of Toronto International Scholar Award ($100k)
· Woodsworth College Academic Scholarship Second Year ($500)
· HIPAA Security Training
· HIPAA Awareness Training
· Cyber Security Awareness (Virtual College)
· The Essentials of Data Protection (Virtual College)
· Confidentiality in the Workplace (Virtual College)