KOJI WONG

koji.wong@mail.utoronto.ca | 778-953-5657

https://github.com/kojiwong | www.linkedin.com/in/wongkoji

EDUCATION

University of Toronto   Sept 2019 - present
Bachelors of Science (B. Sc.)
Computer Science Specialist
Bioinformatics and Computational Biology Specialist
Cumulative GPA: 3.88 (4.0 Scale)

PROFESSIONAL EXPERIENCE

University of Toronto   Sept 2021 - present
Infectious Disease Ecology & Evolution Research Assistant

- Developed code to be utilized in literature-related research on host-parasite interactions and infectious disease
- Assisted in large-scale database construction of metadata from scientific literature using Python's libraries Pandas and NumPy
- Utilized machine learning library Scikit-learn to classify literature texts to determine if infections were induced experimentally or observed

PROJECTS

COVID-19 CT Scan Image Classification   Oct 2021 - Jan 2022
Python, SKlearn, Tensorflow, Matplotlib

- Coordinated with a team of three to create a Convolutional Neural Network (CNN) using Keras and Tensorflow in Python, and trained the model on labeled datasets of lung CT scans of patients with and without COVID-19
- Analyzed model metrics such as accuracy, recall, precision and F1-score for our model using Scikit-learn
- Added callbacks to optimize model fitting such as EarlyStopping which improved metrics
- Visualized loss and accuracy plots across epochs using Matplotlib

Memory Card Game   Sept 2021 - Dec 2021
Java, Swing, SQL

- Collaborated with team of six to develop a memory matching game using Java and utilized version control with git to optimize collaboration and transparent workflow
- Developed code using object-oriented design principles such as SOLID principles, design patterns, and clean architecture
- Implemented GUI using Java Swing library to create window-based application

Algorithmic Sudoku Solver   Apr 2021
Python

- Implemented breadth-first and depth-first search algorithm to output the solution to a solvable Sudoku puzzle

SKILLS

Languages	Python, Java, HTML, CSS, Javascript, C
Libraries/Frameworks	Numpy, Pandas, Scikit-learn, Tensorflow, Keras, Matplotlib
Tools	PyCharm, IntelliJ, VSCode, Github, Google Colab, Jupyter

AWARDS & CERTIFICATES

LearnAI Certificate of Completion	Jan 2022
Louis Savlov (UC'37) Scholarship in Sciences and Humanities	Nov 2021