HANTANG LI

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OBJECTIVE

I am a hard-working and eager developer who would like to pursue a career in Software Engineering and the MLOps-related industries. My goal is to work in the development of ML algorithms applied to real-world problems. To that end, I have experience in machine learning research. My current studies focus on developing ML systems, cloud computing, network development, and data storage systems.

EDUCATION

Master of Science in Applied Computing, University of Toronto — Sep 2022 - May 2024
Relevant Courses (ongoing): Computer Networks, Storage Systems, Big Data Science.
Teaching Assistant: CSC207 Software Design

Honours Bachelor of Science, University of Toronto — Sep 2017 - May 2022
Computer Science Specialist, Data Science Specialist
Cum. GPA: 3.9/4.0
Dean's List Scholar for all school years
Relevant Courses: Operating Systems, Computer Organization, Algorithm Design and Analysis,
Neural Networks and Deep Learning, Uncertainty & Learning, Data Science II, Principles of Programming Languages

SKILLS

Programming Languages	Python, Java, R, C, JavaScript
Data Science Libraries	NumPy, Pandas, PyTorch, OpenCV, Plotly, ggplot2
Others	Linux, Azure, Spark, Docker, Django, LaTeX

EXPERIENCE

Research Assistant — May 2021 - July 2022
Sunnybrook Health Sciences Centre, Supervisor: Maged Goubran — *Toronto, ON*

- Presented Functional-Consistent CycleGAN for dealing information loss on CTA to CTP translation.
- Developed scripts to summarize medical image volume statistics, which benefits multiple research projects.
- Compared UNETR and ResUNet's performance on T1 brain MRI segmentation using PyTorch.

ML Software Engineer Intern — May 2020 - May 2021
Huawei Noah's Ark Lab, Supervisor: Peng Dai — *Markham, ON*

- Solve computer vision problems, responsible for Video Content Tagging (VCT) on Huawei Cloud.
- Built models using PyTorch that improved VCT's performance on multiple video classification tasks significantly.
- Maintained object detection demos for presenting project progress using Django and JavaScript.

PROJECTS

YouTube Data Analysis. Analyzed whether YouTube is still popular, what factors could result in a high view and how people's preferences have changed in recent years. Data was obtained through YouTube Data API and analyzed using R's data science libraries. Provides interactive plots on a website for users to explore. (Link)

Music Object Detection. Used the Detection Transformer (DETR) and the Faster R-CNN on music object detection and compared their result with analyzing the model's structures. Received a perfect score, as it shows the potential of using DETR on music object detection.(Link)

Transit System. An object-oriented transit card system built by Java, able to configure station maps, store customer information, calculate fares and make logs. The project received a near-perfect score due to its fault tolerance. (Link)