WILLIAM JIANG

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EDUCATION

University of California, Los Angeles *September 2024 - June 2028*
B.S. in Computer Science & Engineering
Overall GPA: N/A

Oakville Trafalgar High School *September 2020 - June 2024*
Physics Club Executive
Machine Learning Specialist
Top 20 Under 18 hockey team in Canada
Overall GPA: 95

EXPERIENCE

University of Waterloo July 2024 - August 2024
Research Intern *Oakville, ON*

- Collaborated with researchers to develop a player tracking software to track hockey statistics
- Annotated hockey footage to collect data machine learning models
- Created an object detection and tracking software using YOLO to identify players and their actions

Math et Al. September 2022 - Present
Executive Director/Media Campaign Coordinator *Virtual*

- Created engaging STEM events to boost enthusiasm and interest in the field.
- Designed a promotional campaign to build attraction to the organization, expanding it to over 250+ members.

Oakville Athletic Academy May 2022 - Present
Athletic Trainer *Oakville, ON*

- Conducted fitness sessions with clients to augment their physical ability and excel in their specific sport.
- Demonstrated proper exercise techniques to ensure clients maintain correct form during workouts to prevent injuries.
- Provided ongoing motivation and support to clients, pushing them to improve their physical performance.

PROJECTS/CERTIFICATIONS

AI Face Recognition System
Used convolutional neural network layers with rectified linear unit or sigmoid activations and a final softmax activation to create a face recognition system up to 99% accuracy.

Large Language Model Chat Bot Project
Implemented different layers of Meta Llama 2 and used Low-Rank Adaptation and Parameter-Efficient Fine-Tuning to create a chat bot and optimize its performance on low computing resources.

AI Chest Disease and Detection and Diagnosis
Built, trained, and tested ResNets in Keras and Tensorflow to detect and classify chest disease from X-Ray Images.
Learned the theory and intuition behind transfer learning technique and Residual Neural Networks.

Introduction to Genomic Technologies/Python for Genomic Data Science
Acquired foundational knowledge in genomics including DNA sequencing, genome analysis, and applications in personalized medicine.
Developed skills in bioinformatics tools for interpreting genetic data and understanding genomic variation.
Applied computational methods to solve problems in genomics, such as sequence alignment and variant calling.