Blair Wang, MEng

26 Case Ootes Dr, Toronto, ON M4A 2X2| linkedin.com/in/jingyi-wang-a5341b261/ | (343) 333-5516 | 18jw111@gmail.com

HIGHLIGHTS OF QUALIFICATIONS

- 2024 New Grad Seeking for **Internship and Full-time** Opportunities
- Master of Software Engineering professional with 4+ years' experience in Full Stack Development, and Data Management.
- Hands-on experience with Frontend; Backend; UI/UX design; DevOps; Testing; Deployment; BI development;Natural Language Processing (NLP); Machine Learning; Cloud Computing
- Extensive knowledge of Python, Java, JavaScript, HTML, CSS, React; Node.js, ExpressJS, PHP, PostgreSQL, MongoDB, MySQL, C#; MATLAB; Adobe Photoshop; PyTorch; Restful WebServices; GitHub; Visual Studio code, Google Colab, IDLE, Postman; Pycharm; VScode community; Google Cloud Platform(GCP); Agile; Windows, macOS, Linux, Microsoft Visio, Power BI.
- Valid G2 driver's license | Willing to Relocate across Ontario

EDUCATION

University of Western Ontario	**London, ON**
Master of Software Engineering	Software Development, Computer Engineering	GPA: 3.7/4.0	09/2023-Expected 08/2024

Queen's University	**Kingston, ON**
Bachelor of Science	Computer Science, Artificial Intelligence	GPA: 3.7/4.3	09/2019-05/2023

- Principal Scholarship; Dean's List

PROFESSIONAL EXPERIENCE

Data Engineer | H-Pharma Medical Storage   05/2022-09/2022
- Developed a medicine recognition software installed in Auto-Medicine Dispensing Machine in pharmacies, for alcohol, animal medicine, pesticides, etc.
- Implemented medicine identification and visualized the data based on prescription data and patient information by developing and training Machine Learning models using Python (Pandas; NumPy; TensorFlow and sci-kit-learn)
- Enabled image recognition of medication labels and parsing of prescription texts by employing convolutional neural networks (CNNs) and natural language processing (NLP)
- Prepared weekly, monthly progress reports and presented them to IT manager, full stack developers

Full Stack Development Project Lead | University of Western Ontario   07/2023-12/2023
- Designed and developed an online shopping website with frontend using React and JSX for interactive components, and a backend powered by Node.js and Express. Key functionalities include user registration, login, password updates, user search, shopping cart management, and order placement.
- Developed a real-time product database using MongoDB and kept product information updated through Express and Mongoose.
- Implemented a database for storing user and order data using RESTful API
- Developed the email verification function for user login using the npm email verification library
- Enabled payment method using Stripe by integrating its API for secure credit card processing and setting up a server-side endpoint to handle payment requests and responses

Algorithm Development Project Lead | Queen's University   12/2022-04/2023
- Analyzed and visualized Toronto's traffic networks into a table and dashboard using community detection algorithms, to optimize urban traffic management and reduce congestion
- Achieved 83% prediction accuracy by ranking 3 algorithms: Louvain, Leiden, and K-means algorithm
- ETL (Extract, Transform, Load) 30k lines of traffic data (roads, time, traffic volume, traffic light, etc.) collected from the Government of Canada using Python
- Conducted 120+ literature reviews and summarized findings, methodologies, and lessons learned
- Prepared a traffic improvement plan and analysis report for the City of Toronto's daily transportation

Machine Learning Project Lead | University of Western Ontario   09/2023-01/2024
- Developed weather forecasting app using different machine learning models.
- Achieved 82% accuracy by ranking 5 models, including a combined model(CNN&LSTM)
- Conducted web scraping for 15 years of weather data collected from Canadian Weather.

Game Design Project | Adventure level &Battle Game|Unity Engine& C#, University of Western Ontario   10/2023-02/2024

CERTIFICATIONS & ADDITIONAL INFO

- **Node.js, Express, MongoDB & More: The Complete Bootcamp 2024** certified by Udemy
- **Interests:** Yoga, Dancing, IT, Tennis, Volunteer work
- **Language:** Fluent in English and Chinese