

Yong Long Tan, MSc

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A Malaysian Chinese MSc graduate in Computer Science from Seattle University, specializing in Data Science. I excel in adapting to new technologies and am eager to contribute my knowledge and skills as a Machine Learning Engineer, all while remaining committed to continuous learning. With a proven robust work ethic and a team-oriented approach that values growth, diverse viewpoints, and success as a team.

Key Skills

- Experienced in programming languages: Python, C/C++, Java, SQL, JavaScript, and PHP.
- Familiar with web development using Django, HTML/CSS, and RESTful API integration.
- Experienced in deploying machine learning models with PyTorch, TensorFlow, scikit-learn, and Hugging Face.
- Skilled in data processing using Pandas, NumPy, and PySpark.
- Proficient in data visualization with Matplotlib and Tableau.
- Familiar with Git version control, Unix/Linux, and Agile methodologies.

Education

Master of Science in Computer Science (Data Science Specialization) , CGPA: 3.64 Seattle University — College of Science & Engineering ▪ Seattle, WA, USA	09/2021 – 06/2023
Machine Learning Specialization Stanford University & DeepLearning.AI on Coursera (Online)	08/2023 – 09/2023
Bachelor of Science in Computer Science — Seattle University ▪ Seattle, WA, USA , CGPA: 3.88	09/2020 – 06/2022
Associate of Science — Seattle Central College ▪ Seattle, WA, USA , CGPA: 3.92	04/2018 – 06/2020

Experience

Seattle University, Computer Science Department ▪ Seattle, Washington, USA	01/2023 – 06/2023
Teaching Assistant, Refactoring & Software Design <ul style="list-style-type: none">• Reduced the workload by 15% through comprehensive grading of homework assignments/papers, providing detailed feedback, and addressing student queries.• Enhanced course material to reinforce key concepts.	

Projects

AI-Driven Business Matching Platform <ul style="list-style-type: none">• Designed and implemented a content-based filtering recommendation system, integrating it with the application.• Developed an AJAX-driven frontend for instant project detail access, boosting user engagement with modal views, eliminating page reloads.• Mitigated the cold start problem partially by using ML techniques like TF-IDF and cosine similarity to generate recommendations.	12/2023 – Present
Conversational AI Chatbot <ul style="list-style-type: none">• Developed an interactive AI chatbot using the Django framework and OpenAI's GPT-3.5 Turbo• Managed user information securely and worked on improving the chatbot's capabilities.	06/2023 – 10/2023
A Framework for Abstractive Summarization of Conversational Meetings <ul style="list-style-type: none">• Leveraged OpenAI Whisper for transcription and BART (Bidirectional & Auto-Regressive Transformers) model.• Preprocessed data for ML models and achieved a 139.6% summarization improvement over the BART base model using ROUGE-LSUM.• Developed Django interfaces for seamless integration of transcription and summarization.	01/2023 – 03/2023
Satchl Loyalty Program Application <ul style="list-style-type: none">• Collaborated on a student verification system using MSAL, leveraging Azure Active Directory.• Engineered PHP APIs for vendor information including location, hours, and loyalty status.• Developed backend API endpoints for vendor management, using databases and JSON.	09/2021 – 06/2022