Yong Long Tan, MSc

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Batu Pahat, Johor, Malaysia ▪ GitHub ▪ Portfolio

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, 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 **09/2021 – 06/2023**
Seattle University — College of Science & Engineering ▪ **Seattle, WA, USA**

Machine Learning Specialization **08/2023 – 09/2023**
Stanford University & DeepLearning.AI on Coursera (Online)

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

- 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.

Publications

- Y. L. Tan et al., "A Framework for Abstractive Summarization of Conversational Meetings," in Proc. of the 14th IEEE CCWC, Las Vegas, NV, 2024. DOI: 10.1109/CCWC60891.2024.10427755.

Projects

AI-Driven Business Matching Platform **12/2023 – Present**

- Designed and implemented a content-based filtering recommendation system within the application.
- Mitigated the cold start problem partially by using ML techniques like TF-IDF and cosine similarity to generate recommendations.

Conversational AI Chatbot **06/2023 – 10/2023**

- 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.

A Framework for Abstractive Summarization of Conversational Meetings **01/2023 – 03/2023**

- Leveraged OpenAI Whisper for transcription and BART (Bidirectional & Auto-Regressive Transformers) model.
- Achieved a 139.6% summarization improvement over the BART base model using ROUGE-LSUM.
- Developed Django interfaces for seamless integration of transcription and summarization.

Satchl Loyalty Program Application **09/2021 – 06/2022**

- 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.