Binglin Wang

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EDUCATION

New York University | Mathematics and Computer Science *New York, NY* | Anticipated Graduation Date: May 2026

- Cumulative **GPA**: 3.86/4.00
- **Relevant Coursework**: Data Structures and Algorithms, Objected Oriented Programming, Linear Algebra, Computer Architecture and Organization, Theory of Probability , Basic Algorithm

Le Wagon, Tokyo | 10-week data science boot camp *Tokyo, Japan* | Oct 2022 – Dec 2022

- Attend lectures on data toolkit, decision science, machine learning, and ML ops; collaborated with batchmates to complete daily coding projects and a final machine learning project; delivered presentations on data science projects

Working Experience

Machine Learning Engineer (Self-employed), Pomu-io *New York, NY* | Dec 2023 – Present

- Directed machine learning development, responsibilities included creating embedding system for manufactures' main product image using OpenAI's CLIP; implement a PostgreSQL database on Supabase for MVP demo to perform HNSW search
- Design and implement the manufacture recommendation algorithm based on image, numerical, and categorical input for manufacture information; developed a Docker container for the recommendation algorithm, deployed on AWS EC2 backend to ensure scalable performance

Software Developer Intern, Procuro AI *Remote* | Dec 2023 – June 2024

Intern Project: Company News AI Insights Agent (https://github.com/andrewangbl/company-news-collector-gpt)

- Developed an autonomous AI agent system to search, scrape, and generate AI insights from public company data using Google Serper API, Browserless API, and OpenAI models.
- Built a scalable backend API using FastAPI to manage and automate the scraping of news articles.
- Implemented Postgre SQL CRUD operations and managed relational data using Supabase; deployed the application on Render, enabling real-time data processing for end-users.

Undergraduate Research Assistant, NYU AI4CE Lab *New York, NY* | Nov 2023 – Present

Team: Deepmapping3 (Self-Supervised Large-Scale LiDAR Map Optimization) led by PhD candidate Chao Chen

- Conducted testing on KITTI dataset (22GB) and test baseline model LIO-SAM in the ROS (Robot Operating System); processed experimental data to calculate ATE (average trajectory error); composing the Related Work section of the paper.

PROJECTS

Full-Stack Developer, Individual Project *New York, NY* | May 2024

Project Name: Prompt Hub (https://github.com/andrewangbl/prompt-sharing-hub)

- Developed a CRUD AI prompting tool using Next.js and MongoDB.
- Engineered features for discovering, creating, editing, and deleting AI prompts, allow users to interact and share their prompts seamlessly; utilized MongoDB for efficient data storage and retrieval, ensuring robust performance and scalability.
- Implemented user authentication and authorization with NextAuth, enabling secure Google sign-in functionality.

Machine Learning Model Developer, Le Wagon Data Science Bootcamp *Tokyo, Japan* | Nov 2022 - Dec 2022

Project Name: Reddit Upvote Model (https://github.com/andrewangbl/Upvote_Model)

- Collaborated with two group members on Git branches to implement a machine learning model to predict upvotes of posts on the r/dogpictures subreddit with a combination of image features, post titles, and posting time, achieving a 29.7% accuracy rate (baseline score: 16.7%).
- Built the post title model by preprocessing text information from CSV data in Reddit API, training a Word2Vec text model, and employing an LSTM model that analyzes post titles and their influence on user engagement.

SKILLS

Programming Languages: Python, C++, JavaScript, Shell Script
Data Analytics and Machine Learning: Numpy, Pandas, Scikit-learn, TensorFlow Keras, Pydantic, PostgreSQL, Langchain, OpenAI, MongoDB
Frameworks: React, React Native, Next.js, FastAPI, Node.js
Product Development: Supabase, Docker, Jupyter Notebook, Streamlit, Tailwind CSS, NativeWind