DENNIS YANG

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EDUCATION

University of Michigan Ann Arbor, Ann Arbor, MI **May 2026**
BSE in Computer Science **GPA: 3.98**
Coursework: Data Structures and Algorithms, Foundations of Computer Science, Introduction to Computer Organization, Introduction to Machine Learning, Database Management Systems, Social Consequences of Computing, Data Science
Honors*:* University of Michigan William J. Branstrom Prize, 2023-2024; University of Michigan Merit Scholarship, 8/2023 to Present
Activities: University of Michigan Marching Band, Wolverine Sports Analytics (data analytics club focused on sports), Michigan Academic Competitions

SKILLS

LANGUAGES: C/C++, Java, Python, HTML/CSS/Javascript, SQL, Kotlin, Bash Scripting, Powershell
TECHNOLOGIES: Windows, Linux, Mac OS, Flask and Kivy, Android Apps, OpenCV, SQLite, Google Maps API, OpenAI/ChatGPT API (GenAI and LLMs), Numpy, Pandas, Scikit-Learn, Pytorch, Git, MongoDB (NoSQL Databases), Oracle DB, Tableau, Microsoft Office (Word, Excel, PowerPoint)

WORK EXPERIENCE

Electric Vehicle Charging Station Recommendation Research, University of Michigan Ann Arbor 5/2024-8/2024
- Conducted during the summer of 2024 under the SURE program under Dr. Shan Bao at UMTRI (University of Michigan Transportation Research Institute) and graduate students
- Ranked EV stations using OpenAI/ChatGPT API and the Python Numpy Library to generate different values for different aspects of charging stations based on Google Reviews
- Developed an Android app using Flask backend and Kivy, with a SQLite database, that provided personalized user rankings of nearby EV Charging Stations and displayed it with the Google Maps API

Tutor and Grader of Kumon Math and Reading Center, Troy, MI 3/2022-8/2023
- Taught mathematics up to calculus and English to preK to grade schoolers
- Learned about communication, presentation, and teaching skills

PROJECTS

Medical Mortality Prediction With Machine Learning 9/2024-10/2024
- Predicted in hospital mortality using public data from Beth Israel Deaconess Medical Center
- Used Scikit-Learn Logistic Regression with different regularization settings and Pytorch LSTM recurrent neural networks (RNN) models; plotted resulting data using Matplotlib.
- Worked with measures such as AUROC and F1-Score

Designed Assembler 9/2024
- Designed assembler for a model RISC assembly language in C to convert assembly code into object files
- Used aspects of C such as file input and output to allow users to directly input assembly files
- Modeled an assembly language based on a subset of the ARM assembly language
- Implemented different opcodes and operations with memory registers to simulate and run assembly programs

dennis-yang-d.github.io 3/2024-present
- Built personal website with Bootstrap 5 and HTML/CSS/Javascript
- Uses elements of Bootstrap such as containers and boxes to improve the layout and user experience of the website
- Made clicker game (https://dennis-yang-d.github.io/clickergame/) with HTML/CSS/Javascript

Co-founded DataPublic, a Non-Profit Organization in Troy, MI 4/2020-8/2022
- Extracted COVID data from all 50 states with Selenium, requests, and OpenCV Python libraries; worked with Java
- Predicted future counts with the SIR model and plotted resulting data with Matplotlib and ArcGIS