Todd Dong

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EDUCATION

Carnegie Mellon University   **Aug. 2024 - May 2028**
B.S. in Computer Science and concentration in Machine Learning   *Pittsburgh, PA*
Relevant Courses: Fundamentals of Programming and Computer Science, Principles of Imperative Computation, Mathematical Foundations for Computer Science,

TECHNICAL SKILLS

Languages: C, Java, JavaScript, Python, HTML, CSS
Technologies: TensorFlow, NumPy, Matplotlib, scikitlearn, Django
Tools: VS Code, Processing, LaTeX, Jupyter, Git, ChatGPT
Certifications: Machine Learning (Stanford University, DeepLearning.AI), AWS Cloud Practitioner

EXPERIENCE

University of Alaska Anchorage Artificial Intelligence Lab   **Jun. 2025 - Aug. 2025**
Machine Learning Intern   *Anchorage, AK*
- Implemented **4 GB Ollama Phi** LLM for natural language processing to help hearing impaired individuals
- Architected Django-based user management system with secure authentication, registration, and login functionality
- Created CSRF-protected backend endpoints to handle API requests and ensure secure data transmission

CMU ScottyLabs | https://cmueats.com/   **June 2025 - Present**
SWE Developer   *Remote / In Person*
- Improved user experience for **1,000** daily users and **3,600** weekly users enhancing appearance and efficiency

PROJECTS

Artificial Neural Network for Number Recognition | Python   **Jul. 2025**
- Built and trained a **3** layer neural network using TensorFlow on **60,000** MNIST image dataset to classify handwritten digits
- Implemented image normalization, grayscale conversion, resizing, inversion, and center of mass alignment to improve classification accuracy on real world inputs to improve raw input accuracy from **92%** to **98%**
- Trained the model using the **Adam optimizer** Achieving peak accuracy with **5** epochs in less than **30** seconds

Full Stack AI Assisted Weather App | HTML, CSS, JavaScript   **Jun. 2025**
- Created a responsive app to show real time weather conditions to **200k+** cities from data from OpenWeather API
- Integrated **GPT 3.5** natural language processing wrapper enabling users to ask conversational weather queries
- Auto detects the users' location and preloads weather for 6 popular cities to cut down lookup time

AI Wordle Game | Python https://www.youtube.com/watch?v=79BA4dGW4vg   **Dec. 2024**
- Implemented game logic, including user input, computer guessing algorithms, visual graphics output, and hints
- Optimized code by using object oriented programming and cohesive structure, tested on **50+** users
- Included 3 computer guessing algorithms ranging in efficiency and complexity, with hardest mode **averaging 3.4 guesses**

Virtual Machine | C   **Dec. 2024**
- Engineered a fully functional stack based vm to execute custom bytecode, simulating execution and memory allocation
- Implemented **50+** bytecode instructions including arithmetic, logic, memory allocation, function calls, arrays and arrays

Full Stack Calculator | HTML, CSS, JavaScript   **Jun. 2025**
- Created a keyboard and button functional calculator supporting pi, exponentiation, and standard calculator features
- Implemented clear, backspace, and enter keyboard features to give the website an app feel