Alex Picard

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https://www.linkedin.com/in/alexpicard0/   www.alexpicard.info

EDUCATION

University of Maine - BS, Major: Computer Eng., Minor: Computer Science, GPA (3.0) 2021 - 2025

Boston University - Master of Science in Software Development, 2025-2027

TECHNICAL SKILLS

Programming Tools| C, C++, Python, Java, Assembly, Matlab, Verilog, Git, GitLab

Web Development | Javascript, HTML/CSS, Flask, Tailwind CSS

AI development | PyTorch, Numpy, Pandas, Scipy, Sci-kit Learn, Tensorflow, OpenCV

WORK EXPERIENCE

Machine Learning Research Assistant | ASCC   **May 2023 - September 2024**

Using different AI techniques to develop software Python | PyTorch | Numpy | Pandas | Matlab

- Translated code from Matlab into Python using Numpy, Pandas, and Matplotlib.
- Developed neural networks such as physics-informed neural networks in Python using PyTorch for a multi-fidelity deep active learning network.
- Enhanced proficiency in conducting effective meetings and consistently met project deadlines.

Stocking Associate | Walmart   **July 2022 - Present**

- Safe receiving and stocking the existing inventory of ~$12 million.
- Following standards and procedures given by company management.

PROJECTS

Front-End Software Development | Portfolio   **May 2023 - June 2023**

Front-end design for personal portfolio website | Javascript | HTML/CSS | URL: www.alexpicard.info

- Created a personal portfolio from scratch using basic web development coding languages. The webpage includes my classes, about me, and extra projects.

Full-Stack Development |Gas Sensor Webserver   **Nov 2024 - Dec 2024**

A web server that displays measurements from gas sensors. Python | Flask | Javascript HTML/CSS

- The project uses Python, Flask, Javascript, HTML/CSS/Tailwind CSS to display gauges representing the changes in air quality, and accurately update them when polling once a second using the MiCS5524 and SGP30 on a Raspberry Pi 3B+.

Software and AI Development | ASL Interpreter   **Sept. 2024 - Dec. 2024**

Deep learning project for translating ASL | Python | Tensorflow | OpenCV

- Created a deep neural network using transfer learning on MobileNetV2 to translate 24/26 letters from the ASL alphabet into English letters. It is then displayed on the display, and an OLED display is mounted onto a Raspberry Pi 5 using a Coral mini PCIe TPU for faster computations.

Accomplishments

- Boy Scouts - Eagle Scout - Caribou, Maine - Troop 184 - 2021
- Order of the Arrow - Brotherhood - Katahdin Area Council - North Star Chapter - 2019
- Tau Kappa Epsilon Brother - Beta Upsilon - Spring 2024