ALAN YANG

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EXPERIENCE

Neighborhood IT Desktop Support Aug. 2023 – Dec. 2024

University of Michigan *Ann Arbor, MI*
- Resolved hardware, software, and network issues faced by the University of Michigan faculty and staff
- Managed devices for alumni, faculty, and staff members in addition to stock inventory and disposals
- Utilized TeamDynamix to handle and update service requests and to communicate with customers

Information Resource Management and Economics Intern May – Jun. 2022, May – Aug. 2023

U.S. Embassy Kuwait *Kuwait City, Kuwait*
- Delivered high-quality technical support to other embassy sections, managing the users' accounts and hardware
- Assisted in database and user hardware maintenance
- Drafted official embassy cables and DipNotes for communication with American and Kuwaiti governments

Information Resource Management Intern Jun. – Jul. 2021

U.S. Embassy Bangkok *Bangkok, Thailand*
- Converted Embassy websites to adhere to Section 508 accessibility guidelines
- Updated software of embassy computers, laptops, and tablets
- Performed administrative tasks

EDUCATION

University of Michigan Aug. 2021 – Dec. 2024

Bachelor of Science in Computer Science, Bachelor of Arts in Political Science *Ann Arbor, MI*

PROJECTS

FileMindr | *Python, Flask, HTML/CSS/JavaScript, Letta* Aug. 2024 – Dec. 2024
- Utilized Letta (MemGPT) AI to develop a chat bot that helps organize file systems
- Created tools within Letta for the agent to use, including file reorganization, querying, and deletion suggestion
- Helped front-end team connect Letta API to the UI

VEX Robotics | *C++, PROS, OkapiLib, LemLib* Aug. 2023 – Dec. 2024
- Implemented various PROS libraries to complete VEX Robotics challenges, which differ by year
- Developed driver control, odometry, pure pursuit, and action chaining functionality, and assisted with PID tuning
- Aided the mechanical team with building to help expedite the development process

Emotion Recognition | *Python, OpenCV, PyTorch, Numpy, scikit-learn, Matplotlib, pandas* May – Aug. 2024
- Applied a Haar Cascade facial classifier to create a facial recognition model with OpenCV
- Designed a CNN architecture with PyTorch, achieving over a 60% success rate at predicting emotions

Google Clone | *Python, HTML/CSS/JavaScript, React* Nov. – Dec. 2023
- Developed a segmented inverted index of web pages using a pipeline of devised MapReduce programs
- Built an index server and a REST API application
- Constructed a search server with a user interface that returns search results in a manner akin to Google

Instagram Clone | *Python, HTML/CSS/Javascript, React, MySQL* Aug. – Oct. 2023
- Created an application with client-side dynamic pages and a REST API
- Wrote a client application in JavaScript which runs in the browser and makes AJAX calls to the REST API
- Managed a simple database using MySQL

TECHNICAL SKILLS

Languages: Python, C++, Java, JavaScript, HTML/CSS
Frameworks: LangChain, MySQL, Flask, Express, Node.js, MongoDB, Material-UI
Developer Tools: Git, Docker, VS Code, AWS, GCP, Jupyter, GDB, Unity, Heroku, Autopsy, WireShark
Libraries: React, Numpy, Beautiful Soup, OpenCV, PyTorch, pandas, scikit-learn, Matplotlib