Allen P. Chien

ALLEN71090@GMAIL.COM · (347) 975-1707 · ALLENCHIENXXX.GITHUB.IO

Technical Skills

Languages	C/C++, Python, Java, MATLAB, MASM32, MATLAB, HTML/CSS
Operating Systems	MacOS, Windows, Linux, Robot Operating System
Domain Knowledges	Machine Learning(Supervised Learning, Reinforcement Learning, TinyML Deep learning, Natural Language Processing), Embedded Systems

Education

University of Wisconsin - Madison   *Madison, WI · 12/2023 - 12/2024*

Concentration	Computer Science · BS

LaGuardia Community College (CUNY)   *Long Island City, NY · 09/2022 - 12/2023*

Concentration	Computer Science · AS · GPA: 3.9

Work Experience

L'SPACE NPWEE Academy (NASA), *Intern*   *Remote · 09/2023 - 12/2023*
- Wrote a proposal with a team of 14 to compete with other teams for a grant of 10,000$.
- Researched machine learning methods that analyze satellite data to detect microplastics.

Hunter College (CUNY), *Research Student*   *New York, NY · 06/2023 - 12/2023*
- Conducted research with Dr. Anita Raja in Distributed Artificial Intelligence Research Lab.
- Investigated the problem of credit assignment and communication optimization for Multi-Agent Reinforcement Learning in a variety of scenarios of StarCraft2.

LaGuardia Community College (CUNY), *Tutor*   *New York, NY · 03/2023 - 12/2023*
- Tutored and assisted students on developing the skills they need to do well in the courses they enrolled in. Classes tutored were Advanced C++ Programming, Computer Organization and Assembly Language Programming.

LaGuardia Community College (CUNY), *Research Student*   *New York, NY · 11/2022 - 08/2023*
- Conducted research with Dr. Praveen Khethavath while being part of the National Institute of Health Bridges, and published a paper to IEEE CSDE 2023.
- Performed binary classifications with 10 supervised and deep learning methods.
- Gather 1970 real emails and labeled them by ourselves.
- Extracted 24 features from 16906 emails, including online and real email datasets.

National Community College Aerospace Scholar (NASA), *Intern*   *Remote · 01/2023 - 06/2023*
- Discovered, researched past, present and future missions and programs of Aeronautics Research Mission Directorate.
- Designed and researched a framework plan for lunar exploration.

Projects

Support Vector Machine, *C++, OpenGL*   *New York, NY · 11/2022 - 08/2023*
- Constructed Support Vector Machine model from scratch, and achieved 100% accuracy on linear separable datasets.
- Implemented Sequential Minimize Optimization algorithm that resolved the SVM dual problem.
- Visualized the SVM hyperplane that separates the data points with the OpenGL library.

LaGuardia Express Search, *Python (Flask)*   *New York, NY · 03/2023*
- Managed a team of 5 and won the First place at LaGuardiaCC hackathon2023.
- Transcribed the speech input into text as a prompt question using Google Speech API.
- Generate prompts that redirect users to the appropriate school resource using OpenAI API.

SVM, *Python (Streamlit)*   *New York, NY · 03/2023*
- Won the First place at Bio x ML hackathon issued by Hugging Face and Lux Capital.
- Fine Tuned LLMs that Generate unified protein embedding across multiple protein modalities.
- Launched and worked on cloud computing services including Runpods and Lambda Cloud.