Allen P. Chien

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Technical Skills

Languages	C/C++, Python, Java, MATLAB, MASM32, MATLAB, HTML/CSS
Operating Systems	MacOS, Windows, Linux, Robot Operating System2
Domain Knowledges	Machine Learning (Supervised Learning, Reinforcement Learning, TinyML Deep learning, Natural Language Processing), Embedded Systems

Work Experience

L'SPACE NPWEE Academy (NASA), *Intern*   *Remote* · 09/2023 - Present
- 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 - Present
- 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 - Present
- 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 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.

Need Tech Inc, *Information Technology Support Intern*   *New York, NY* · 03/2023 - 06/2023
- Developed documentation for software applications.
- Troubleshooted hardware issues, including printers and kiosks' malfunctions.

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.

Education

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

Concentration	Computer Science · AS · GPA: 3.9