

# 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

## Education

<b>University of Wisconsin - Madison</b>	Madison, Wi · 12/2023 - 12/2024
Concentration	Computer Science · BS
<b>LaGuardia Community College (CUNY)</b>	Long Island City, NY · 09/2022 - 12/2023
Concentration	Computer Science · AS · GPA: 3.9

## Work Experience

<b>L'SPACE NPWEE Academy (NASA), Intern</b>	Remote · 09/2023 - 12/2023
<ul style="list-style-type: none"><li>Wrote a proposal with a team of 14 to compete with other teams for a grant of 10,000\$.</li><li>Researched machine learning methods that analyze satellite data to detect microplastics.</li></ul>	
<b>Hunter College (CUNY), Research Student</b>	New York, NY · 06/2023 - 12/2023
<ul style="list-style-type: none"><li>Conducted research with Dr. Anita Raja in Distributed Artificial Intelligence Research Lab.</li><li>Investigated the problem of credit assignment and communication optimization for Multi-Agent Reinforcement Learning in a variety of scenarios of StarCraft2.</li></ul>	
<b>LaGuardia Community College (CUNY), Tutor</b>	New York, NY · 03/2023 - 12/2023
<ul style="list-style-type: none"><li>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.</li></ul>	
<b>LaGuardia Community College (CUNY), Research Student</b>	New York, NY · 11/2022 - 08/2023
<ul style="list-style-type: none"><li>Conducted research with Dr. Praveen Khethavath while being part of the National Institute of Health Bridges, and published a paper to CSDE 2023.</li><li>Performed binary classifications with 10 supervised and deep learning methods.</li><li>Gather 1970 real emails and labeled them by ourselves.</li><li>Extracted 24 features from 16906 emails, including online and real email datasets.</li></ul>	
<b>National Community College Aerospace Scholar (NASA), Intern</b>	Remote · 01/2023 - 06/2023
<ul style="list-style-type: none"><li>Discovered, researched past, present and future missions and programs of Aeronautics Research Mission Directorate.</li><li>Designed and researched a framework plan for lunar exploration.</li></ul>	

## Projects

<b>Support Vector Machine, C++, OpenGL</b>	New York, NY · 11/2022 - 08/2023
<ul style="list-style-type: none"><li>Constructed Support Vector Machine model from scratch, and achieved 100% accuracy on linear separable datasets.</li><li>Implemented Sequential Minimize Optimization algorithm that resolved the SVM dual problem.</li><li>Visualized the SVM hyperplane that separates the data points with the OpenGL library.</li></ul>	
<b>LaGuardia Express Search, Python (Flask)</b>	New York, NY · 03/2023
<ul style="list-style-type: none"><li>Managed a team of 5 and won the First place at LaGuardiaCC hackathon2023.</li><li>Transcribed the speech input into text as a prompt question using Google Speech API.</li><li>Generate prompts that redirect users to the appropriate school resource using OpenAI API.</li></ul>	
<b>SVM, Python (Streamlit)</b>	New York, NY · 03/2023
<ul style="list-style-type: none"><li>Won the First place at Bio x ML hackathon issued by Hugging Face and Lux Capital.</li><li>Fine Tuned LLMs that Generate unified protein embedding across multiple protein modalities.</li><li>Launched and worked on cloud computing services including Runpods and Lambda Cloud.</li></ul>	