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 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*

- Collaborated with a dynamic team of 14 members to craft a compelling grant proposal, vying against other teams for a $10,000 grant.
- Investigated machine learning methods focused on the analysis of satellite data for the purpose of detecting microplastics.

Hunter College (CUNY), *Research Student*   *New York, NY · 06/2023 - 12/2023*

- Collaborated closely with Dr. Anita Raja in the Distributed Artificial Intelligence Research Lab, actively contributing to research initiatives.
- Delved into the intricate challenges of credit assignment and communication optimization in Multi-Agent Reinforcement Learning within various StarCraft2 scenarios.

LaGuardia Community College (CUNY), *Research Student*   *New York, NY · 11/2022 - 08/2023*

- Engaged in impactful research alongside Dr. Praveen Khethavath as a member of the National Institute of Health Bridges, resulting in the publication of a paper in IEEE CSDE 2023.
- Applied comprehensive analysis by conducting binary classifications using ten distinct supervised and deep learning methods.
- Applied advanced data analysis techniques to extract 24 key features from a diverse set of 16,906 emails, encompassing both online and real email datasets.

Projects

Support Vector Machine, *C++, OpenGL*   *New York, NY · 11/2022 - 08/2023*

- Developed a Support Vector Machine (SVM) model from the ground up, achieving unparalleled success with 100% accuracy on linearly separable datasets.
- Applied the Sequential Minimize Optimization (SMO) algorithm to effectively resolve the SVM dual problem.
- Utilized the OpenGL library to visually represent the SVM hyperplane.

LaGuardia Express Search, *Python (Flask)*   *New York, NY · 03/2023*

- Led and orchestrated a high-performing team of 5, securing the prestigious First Place at the CUNY-LaGuardiaCC Hackathon 2023.
- Applied advanced speech-to-text technology by transcribing speech inputs into prompt questions using the Google Speech API.
- Engineered prompts utilizing the OpenAI API to guide users seamlessly to relevant school resources.

SVM, *Python (Streamlit)*   *New York, NY · 03/2023*

- Secured the prestigious First Place at the Bio x ML hackathon hosted by Hugging Face and Lux Capital.
- Executed fine-tuning on Language Models (LLMs), crafting a unified protein embedding across diverse protein modalities.