

# Leo J. Gong

(408)-510-8950 | [leogong21@gmail.com](mailto:leogong21@gmail.com) | <https://www.linkedin.com/in/leo-gong/> | [github.com/Leoglucky](https://github.com/Leoglucky)

## EDUCATION

### Carnegie Mellon University

Aug 2023-May 2027

*B.S. Computer Science and Arts*

*Pittsburgh, PA*

- **Related Courses:** Computer Systems, Data Structure and Algorithms in C, Artificial Intelligence, Functional Programming, Machine Learning
- **Skills:** Java, C++, C, Python, R, JavaScript, JSON, OpenCV, Go, SQL, Software and Hardware Compatibility

## WORK EXPERIENCE

### Stanford National Accelerator Laboratory

Jun 2025 – Aug 2025

*Software Developer Intern*

*Menlo Park, CA*

- Designed and shipped an MBES endstation GUI (Python, PyDM/PyQt) that aggregates dozens of EPICS PVs with tabbed views, alarm widgets, and a one-click “Ready for Beam” macro to reduce screen-hopping and setup friction.
- Implemented an Interlock status GUI with traffic-light states, latched-fault details, and improved fault tolerance.
- Created a camera misalignment detector (OpenCV) using reference-frame diff/key-point matching to flag bumped/moved cameras; publishes EPICS alarms / chat notifications and includes a baseline-recalibration utility.
- Collaborated with instrument scientists to gather requirements, iterate UI/UX from field feedback, and document deployment/usage; wrote smoke tests and scripts for repeatable installs.

### IntBot

Dec 2024 – Jan 2025

*Software Developer Intern*

*Sunnyvale, CA*

- Collaborated with an AI startup to enhance the responsiveness and personality of interactive bots for the service industry, leveraging Python, JSON and TypeScript to create a more human-like user experience, displayed in the Consumers Electronics Show (CES) of January 2025.
- Designed and refined dynamic facial expression systems, aligning visual responses with emotional contexts to create a lifelike and engaging presence. Demoed in the CES 2025 with positive feedback from investors.
- Optimized animations and developed emotion-driven expressions, improving bot interaction quality

### Zeitro

June 2024 – Aug 2024

*Software Developer Intern*

*Santa Clara, CA*

- Tested and debugged frontend sections of Zeitro’s website for Windows compatibility.
- Developed an interactive chatbot for the website to link messages directly to Slack chat rooms

## PROJECTS

### CS Application Projects

15-213 Computer Systems

- Wrote a cache simulator that simulates the hit/miss behavior of a cache on valgrind memory traces.
- Wrote an implementation of malloc and free to dynamically allocate memory.
- Wrote a Linux shell that handles signals, built in commands, foreground/background jobs, and I/O.
- Developed a multithreaded web proxy server capable of handling HTTP/1.0 GET requests concurrently.
- Implemented a multithreaded file system, supporting file creation, deletion, reading, and writing operations.

### AI Projects

15-281 Artificial Intelligence

- Built general search algorithms and agents that fully simulates robots using reflex agents and minimax search.
- Designed planning frameworks for Pacman with algorithms such as GraphPlan and classical learning algorithms.
- Implemented learning algorithms like Q-Learning and value iteration for simulated bots, applying advanced techniques like Asynchronous Value Iteration and Approximate Q-Learning for enhanced decision-making.

## ACTIVITIES AND REWARDS

- **GCS**(CMU Game Creation Society) – Game Creator and Soundtrack Composer
- **Team Crescendo LLC** – Game Music Composer
- **Dean’s List:** Spring24, Fall24