Kenneth Ly

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EDUCATION

California State University, Fullerton (CSUF) **Fullerton, CA**

B.S. Computer Science *Expected Graduation: May 2027*

- **Cumulative GPA**: 3.64
- **Activities & Societies**: Association of Computing Machinery
- **Coursework**: Data Structures, Object-Oriented Programming, Computer Assembly and Organization, Operating System Concepts, File Structure and Database, Software Engineering, Compilers and Languages

PROJECTS

Sonar Scanner

C++, Arduino UNO

- Engineered a radar-style object detection system by programming an Arduino UNO in C++ to control an ultrasonic sensor mounted on a servo motor sweeping 180°, visualizing detected distances on a live radar interface.
- Implemented real-time object mapping using ultrasonic sonar data processed via Arduino IDE and servo-driven angular sweeps, producing an on-screen radar visualization of surrounding obstacles.
- Leveraged AI-assisted development to optimize sensor sweep logic and data handling algorithms, reducing measurement latency by 25% and improving distance reading accuracy to 3cm precision for enhanced radar display clarity.
- Integrated servo motor control with ultrasonic measurements to simulate radar scanning, creating an interactive visualization of nearby objects for educational and prototyping purposes.

Leftover Food Tracker (CSUF)

Object-Oriented Programming, Git, Linux, C++, Backend

- Developed a leftover food tracking system capable of handling 100+ unique entries per report by applying Object-Oriented Programming principles through composition and inheritance.
- Implemented 10+ validation and aggregation functions through robust input handling and edge case detection, improving reporting accuracy and data integrity.

Clean Water Station Locator (Hackathon Project)

HTML, CSS, JavaScript, Leaflet.js

- Collaborated in a 3-person team to design and build a web application within a 24-hour hackathon timeframe.
- Developed an interactive map-based interface to guide CSUF students to nearby clean water stations using geolocation data.
- Integrated the leaflet.js mapping library to display location markers and dynamically update results based on user position.

TECHNICAL SKILLS

- **Languages**: C++, Python, JavaScript, HTML, CSS, x86 Assembly
- **Tools & Methodologies:** Git, React, Linux, Arduino, Agile, Scrum, Sprints

ADDITIONAL INFORMATION

- Eligible and willing to undergo background investigation and security clearance process
- U.S. work authorized