Kenneth Ly

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EDUCATION

California State University, Fullerton (CSUF) **Fullerton, CA**
B.S. Computer Science *Expected Graduation: May 2027*
- **Cumulative GPA**: 3.57
- **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.
- Optimized sensor sweep logic and data handling to reduce lag and improve accuracy of distance readings, enhancing clarity and responsiveness of the radar display.
- Integrated servo motor control with ultrasonic measurements to simulate radar scanning, creating an interactive visualization of nearby objects for educational and prototyping purposes.

NASA APOD
HTML, JavaScript, CSS
- Built a web application that fetched and displayed NASA's daily Astronomy Picture of the Day by integrating the APOD API with asynchronous JavaScript through dynamic image rendering and error handling
- Improved the usability and accessibility of the interface by optimizing layout with CSS Flexbox and semantic HTML through responsive design and intuitive navigation

Leftover Food Tracker (CSUF)
Object-Oriented Programming, Git, Linux, C++, Backend
- Built a leftover food tracking system capable of handling 100+ unique entries per report by applying Object-Oriented Programming principles through composition and inheritance
- Improved reporting accuracy by writing 10+ validation and aggregation functions through robust input handling and edge case detection

CAMPUS INVOLVEMENT

Association of Computer Machinery
Algo Member, Open Source Member
- Participated in workshops focused on Algorithms, Leetcode, and Advanced Algorithms

TECHNICAL SKILLS

- **Languages**: C++, Python, JavaScript, HTML, CSS, MySQL, x86 Assembly
- **Tools**: Git, React, Linux, Arduino