# STERLING RADISAY

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*Passionate programmer proficient in Python, C++, and Javascript. Professional experience working on machine learning, IoT systems, and fullstack projects.*

## EDUCATION

**University of California - Irvine** **Jun 2026**
*Bachelor's, Computer Science* *GPA: 3.9*
- Relevant Course work: Intelligent Systems, Machine Learning, Systems programming, Databases, Quantum Computing, Operating Systems, Information Retrieval, Web Applications

## PROFESSIONAL EXPERIENCE

**UCI Industrial Training and Assessment Center (ITAC)** **Irvine, CA, USA**
*Machine Learning / Systems Software Intern* *Sep 2025 - Present*
*Overview: systems programming (C++), machine learning (python), fullstack web development (javascript)*
- Built a web-based, drag-and-drop modeling software in JavaScript for designing and simulating complex compressed air networks.
- Developed a machine learning model to perform anomaly detection on time-series data from network loggers, accurately identifying compressed air leaks.
- Wrote embedded C++ firmware for ESP32 microcontrollers and designed the associated hardware wiring to create a robust, wirelessly connected sensor network.
- Deployed a full-stack IoT logger network, enabling real-time data transmission from distributed sensors to a centralized monitoring dashboard.
- Developed Virtual Reality (VR) training modules for Industrial equipment
- AI Chatbot integrated with internal databases for fast data lookups

**Hyundai Technology (General Procurement)** **Anaheim, CA, USA**
*Software Engineering Intern* *Jun 2024 - Aug 2025*
Internship #2 Summer 2025
- Automated product data fetching and field reconciliation with natural language processing (numpy, machine learning)
- Developed automated product repricing algorithms (SQL, Python)
Internship #1 Summer 2024
- Optimized Odoo web infrastructure and created developer tools for the web design team (SQL, Python, JS, TailwindCSS).
- Migrated outdated pages to modern Vue.js frontends and improved frontend experience through page speed, caching, telemetry, and conversion tracking.
- Developed a product recommendations system using Python and Numpy.

**American Vessel Documentation** **Irvine, CA, USA**
*Software Engineering Intern* *May 2022 - Aug 2025*

**Audit Quicker** **Irvine, CA, USA**
*Founder* *May 2022 - May 2023*

## PROJECTS

**Blaize (CalHacks Project)**
- Real-time hands-free wildfire evacuation updates utilizing speech recognition and AI models inspired by my team's experience in the Line Fire.

**Project Server**
- Setup a cloud virtual private server for self hosting projects and remote development.

## SKILLS

- **Programming:** C/C++, Python, JavaScript, HTML/CSS, SQL, C#
- **Software:** Git, Google Cloud Platform, Docker, AWS, Microsoft Azure, Linux/Unix, Arduino, ESP32
- **Libraries & Frameworks:** Flask, Django, Vue.js, NumPy, jQuery, Tensorflow, Pytorch, Scikit-learn, OpenCV