

# Marcus Acosta

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**GitHub:** github.com/marcusacosta | **Portfolio:** marcus-acosta-portfolio.vercel.app

## EDUCATION

### Oregon State University

*Post-Baccalaureate in Computer Science*

### University of California, Santa Cruz

*Bachelor in Sociology*

**Corvallis, OR**

*2024 - Present (Expected 2026)*

**Santa Cruz, CA**

*2018 - 2022*

## PROJECT EXPERIENCE

### Ticket Price Alert

*Full-Stack Application – Javascript, Node.js, React, PostgreSQL*

- Eliminated manual ticket price checks by developing a **REST API**, automating monitoring workflows for users.
- Scaled system performance by processing **500+ concurrent simulated API requests** with **0 failures** using queue-based logic and load testing.
- Reduced notification latency to **<10 seconds** by integrating **Twilio** with cron-scheduled polling, demonstrating real-time event pipeline design.

### Collaborative Expense Calendar

*Cloud-Based Web Application – Python, Javascript, Flask, React, PostgreSQL*

- Ensured **100% data reliability** for recurring and one-time expenses by designing a cloud-hosted **PostgreSQL schema** with category tagging.
- Supported **100+ concurrent users with 0 data conflicts** by stress-testing collaboration features and implementing transaction-safe queries.
- Increased user accountability by automating **Twilio SMS reminders** for upcoming expenses, reducing missed payments in testing by **25%**.

### Phishing Link Detector

*Front-End Web Application – TypeScript, React*

- Achieved **90% detection accuracy** in controlled tests by implementing real-time URL parsing and heuristic analysis to flag potentially malicious links.
- Scaled frontend responsiveness by structuring URL checks asynchronously and **caching repeated inputs**, cutting average result times to **under 5 seconds**.
- Validated system reliability by running controlled trials with **hundreds of sample URLs**, ensuring consistent detection results and reducing false positives by **15%**.

## WORK EXPERIENCE

### Life Time Fitness

*Facility Operations Supervisor*

**Walnut Creek, CA**

*Jan 2024 - Present*

- Improved operational efficiency for a **25+ person team** by analyzing workflows, identifying bottlenecks, and implementing optimized scheduling.
- Reduced customer wait times by **15–20%** through streamlined restocking and check-in processes, directly improving throughput.
- Increased SOP compliance by preparing weekly reports, tracking recurring issues, and escalating systemic problems for resolution.

## TECHNICAL SKILLS

**Languages:** Python, JavaScript, TypeScript, SQL

**Frameworks/Libraries:** React, Flask, Node

**Databases:** PostgreSQL, MySQL, MongoDB

**Tools & Platforms:** Git, GitHub Actions, Render, Postman, Vercel, Docker

**Core Strengths:** Distributed systems concepts, concurrency & performance testing, backend API design, real-time event pipelines, debugging & scalability improvements