

Marcus Acosta

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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 the need for 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 (CI/CD), Render, Postman, Vercel

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