Manuel Ramirez

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LinkedIn Profile

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EDUCATION

Oregon State University **Status: Graduated**
B.S. Computer Science

Cal State Fullerton **Status: Graduated**
B.S. Health Science (emphasis in health promotion and disease prevention)

Technical Skills

- **Languages:** Python, Javascript, HTML, CSS, C, SQL
- **Frameworks & Tools**: Flask, Node.js, React, MongoDB, MySQL, Git, Jira
- **General Skills:** Software Development Lifecycle, CI/CD, Technical and Customer Support, Hardware & Software troubleshooting, Microsoft Office, Google Workspace, data entry, bilingual (Spanish/English).
- **Operating Systems:** Windows, Mac OS, iOS, Linux
- **EMR/EHR Platforms**: TouchWorks, NextGen, Epic, ECW, Allscripts, Occusource

PROJECTS

SMALLSH | Custom Unix Shell in C **2025**

- Developed a mini shell replicating Bash features including command execution, I/O redirection, and process management.
- Used fork(), exec(), and waitpid() to handle foreground/background execution and signal handling.
- This project strengthened my understanding of the Linux process API, system calls, and shell scripting fundamentals, and demonstrates my ability to develop low-level system software.

Winery Mock Database Management System | Python, Flask, SQL, MySQL, HTML, CSS **2024**

- Built a full-stack web app for CRUD operations on a relational winery database
- Designed and implemented a structured database with multiple entity relationships, including a many-to-many relationship, while ensuring data integrity through cascading deletions and nullable foreign keys.
- This project enhanced my skills in database design, web development, and backend integration, demonstrating my ability to build functional, user-friendly data management applications.

Fitness App - Microservices Architecture | Python, HTML, CSS, Flask **June 2024**

- Developed a fitness-focused web application using Python, Flask, and a microservices architecture to enhance modularity and scalability. The system featured four distinct microservices, including BMI calculation, randomized workout generation, user authentication with encrypted credentials, and a

workout log with full CRUD functionality.
- This project reinforced software engineering best practices, such as secure user management, RESTful API design, and inter-service communication, demonstrating proficiency in backend development and distributed systems.

Work Experience

Medical Assistant / Medical Support Specialist - Various Clinical Settings

2017 – Present | Locations: Sacramento, Newport Beach, Irvine, and Orange, CA

- Delivered direct patient care across urgent care, concierge, and gastroenterology clinics, consistently adapting to different workflows and patient needs in high-pressure environments
- Maintained, updated, and audited electronic medical records (EMRs) using systems like Epic, NextGen, Allscripts, and Occusource. Demonstrated attention to detail, data integrity, and HIPAA compliance
- Performed technical tasks such as EKG administration, PFTs, phlebotomy, and diagnostic testing, requiring precision and process adherence
- Communicated effectively with interdisciplinary teams, patients, and vendors—developing interpersonal skills critical for collaborative work and projects
- Managed inventory, coordinated patient check-in/out workflows, and optimized clerical processes, showcasing process thinking and the ability to improve user-facing systems
- Supported new employee onboarding and training on office practices as well as software utilities

Manager - Burger King

2014 – 2017 Multiple Locations: Garden Grove, Huntington Beach, and Fullerton, CA

- Helped provide excellent customer service while leading a small team of people
- Trained and onboarded new employees in a manner upholding company values and standards
- Provided workflow management, data entry, inventory control and timesheet management services