Luke Rangel

ljrangel@usc.edu • (805) 702-5281

EDUCATION

University of Southern California **Los Angeles, CA**
Bachelor of Science, Computer Science *December 2025*
GPA: 3.4

Moorpark College **Moorpark, CA**
Associate of Science, Mathematics *December 2022*
GPA: 4.0

SKILLS

Languages: C/C++, JavaScript, Java, HTML, CSS, Python, C#, SQL, PHP
Frameworks/Tools: React.js, Bootstrap, Arduino, Git, Docker, MySQL, MSSQL, Salesforce
Relevant Coursework: Data Structures and Object Oriented Design, Full-Stack Web Development, Algorithms and Theory of Computing, Object-Oriented Programming, Cross-Platform App Development Principles of Software Development, Software Engineering, Intro to Networking

PROJECTS

Kiosk Check-in App | *C#, Typscript, .NET, HTML, CSS* July 2024
- Developed application for patients to check in to the USC Dentistry clinic
- Utilized .NET and C# for backend development to create a robust and secure check-in system
- Implemented frontend with Typscript and HTML/CSS to ensure user a friendly interface
- Enhanced clinic operations by streamlining the check-in process and reducing wait times

MSSQL Git Repository | *MSSQL, Gitea, Networking* July 2024
- Created a Git repository for the USC Herman Ostrow School of Dentistry using Gitea
- Integrated MSSQL with Gitea repository to ensure consistent and reliable data management
- Established version control and collaboration workflows to enhance development efficiency

Stock Trading Simulator | *Java, Git* May 2024
- Implemented multi-threaded programming to schedule stockbrokers and trades
- Utilized GSON to handle JSON and CSV file inputs and ensured trades are logically consistent
- Simulated the process of trading with locks and semaphores

RSA File Encryption/Decryption | *C++, Docker, Git* April 2024
- Implemented the RSA encryption/decryption algorithm for incoming/outgoing messages
- Utilized modular exponentiation algorithms for encryption/decryption to handle large values efficiently
- Developed a user-friendly interface that handles invalid inputs and ensures a smooth user experience

EXPERIENCE

Software Engineer July 2024 - Present
Herman Ostrow School of Dentistry of USC *Los Angeles, CA*
- Update and maintain existing software applications to enhance performance and functionality
- Ensure data integrity and security through meticulous database management and version control
- Collaborate with cross-functional teams to design solutions and ensure successful implementation

IT Support Jan. 2024 - Present
Herman Ostrow School of Dentistry of USC *Los Angeles, CA*
- Provide technical support to faculty, students, and staff for hardware, software, and network issues
- Collaborate with other IT members to implement best policies, practices, and procedures
- Ensure the security of sensitive data by implementing and enforcing security measures and protocols