Luke Rangel

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EDUCATION

University of Southern California

Bachelor of Science, Computer Science

GPA: 3.4

Moorpark College

Associate of Science, Mathematics

GPA: 4.0

December 2025

Los Angeles, CA

Moorpark, CA

December 2022

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

RELEVANT 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
- Established and maintained a Gitea server integrated with MSSQL to deliver a lightweight and self-hosted Git solution
- 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

PROJECTS

NightGuard | Android Studio, Java, Mapbox, Firebase

Sep. 2024 - Present

- Developed NightGuard, an Android app for tracking and reporting light pollution
- Integrated Mapbox API for interactive, location-based reporting and Firebase for cloud data storage
- Enabled users to submit light pollution reports through a user-friendly interface

Tree Hole | Android Studio, Java, SQL, Firebase, RESTful API

Aug. 2024 - Present

- Worked with a team of three to develop a social platform tailored to USC students
- Created a real-time feed where students can post, comment, and engage with other students
- Handled backend services with Firebase to ensure data security and integrity

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

RSA File Encryption/Decryption $\mid C++, Docker, Git$

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