

Christian Ruiz

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EDUCATION

University of California, Riverside
Bachelor of Science in Computer Science

Riverside, CA
2024

CERTIFICATIONS

Moreno Valley College
CIS-18A Java Programming: Objects

Moreno Valley, CA
2021

PROJECTS

SIEM Log Monitoring and Threat Detection | *Python, Ubuntu Linux OS, ELK Stack*

- Deployed the Elastic Stack (Elasticsearch, Logstash, Kibana, Filebeat) on an Ubuntu Linux VM using VirtualBox to build a custom SIEM solution
- Ingested and normalized system logs and CSV-based event data into Elasticsearch for structured analysis and correlation
- Configured Logstash pipelines and created Kibana dashboards to detect authentication failures, malware activity, and high-priority alerts
- Strengthened incident visibility by developing queries and visualizations to identify security trends and suspicious activity

Crime Database System | *Python, SQL, MySQL, Node.js, PySpark, Hadoop*

- Preprocessed 22 million records of police crimes across five major cities (LA, Chicago, NYC, Austin, Philly) using Python scripts in PySpark, and stored the data in MySQL for efficient management
- Leveraged Node.js to retrieve and streamline the integration of large-scale datasets from MySQL, ensuring smooth data delivery and support for front-end development

Flight Booking System | *C++, Git, Github*

- Developed a secure system for companies to store user login credentials, manage itineraries, and handle flight booking data efficiently
- Enhanced user experience by enabling seamless itinerary management and providing convenient tools for storing, filtering, and updating flight booking data
- Worked within a team of 4, utilizing Git and Github for version control

Simon Says | *C*

- Simon Says esque game using ATmega328P microcontroller (Arduino UNO) where light patterns are displayed on four LEDs in a cross pattern
- Used bit manipulation to initialize and control components such as an EEPROM, Joystick, LCD screen, Buzzer, and LEDs
- User uses joystick to enter the pattern (choices are UP, LEFT, RIGHT, DOWN)
- LCD screen displays game state
- When powered off, EEPROM stores score data (highscore)

UCR Chatroom | *JavaScript, HTML, CSS, Node.js, MongoDB, Git, Github*

- Developed a chat system using MongoDB to securely store user login credentials and efficiently manage chat data, using real-time communication and authentication processes within the application
- Integrated Google Login to provide users with a seamless and secure alternative login method, enhancing the overall user experience

SKILLS

Spoken Languages: Fluent in Spanish and English

Programming Languages: C/C++, Java, Python, SQL, JavaScript, LC-3

Cybersecurity Tools and Platforms: Wireshark, ProDiscover, ELK Stack (Elasticsearch, Logstash, Kibana), GParted, VirtualBox

Other Technologies and Tools: Pytest, Google Test, MySQL, Git, GitHub, PySpark, Hadoop, Node.js, React, HTML, CSS, Arduino