

Jay Felix

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EDUCATION

University of Nevada, Las Vegas (UNLV) <i>Bachelor of Science in Computer Science (In Progress), Junior Standing</i>	Las Vegas, NV
College of Southern Nevada <i>Associate of Science in Computer Science</i>	Las Vegas, NV <i>December 14, 2024</i>

EXPERIENCE

Volunteer Code Instructor <i>Code Ninjas</i>	Las Vegas, NV
<ul style="list-style-type: none">– Taught foundational programming concepts through hands-on game development using JavaScript, Python, Unity, and C#– Guided students in building interactive projects, reinforcing variables, loops, conditionals, and object-oriented principles– Assisted students with debugging and structured problem-solving techniques– Adapted technical explanations for different age groups (6–14) while maintaining conceptual depth– Encouraged logical thinking and computational reasoning through project-based learning	

PROJECTS

Telemetry & Anomaly Monitoring System <i>Python, SQL, SQLite, Pandas</i>	
<ul style="list-style-type: none">– Designed and implemented a modular telemetry system to simulate, store, analyze, and monitor sensor data– Built an anomaly detection engine using configurable thresholds to flag out-of-range readings– Persisted time-series telemetry and alerts using SQLite and performed analysis with SQL and Pandas– Implemented structured logging and unit tests to improve observability and reliability– Visualized historical telemetry trends using Matplotlib	
Multithreaded Task Scheduler <i>C++, Concurrency</i>	
<ul style="list-style-type: none">– Built a fixed-size thread pool to execute tasks concurrently using worker threads– Implemented thread-safe task queues using mutexes and condition variables– Ensured graceful shutdown and safe resource cleanup using RAII principles– Wrote unit tests to verify concurrency behavior and clean shutdown semantics	

TECHNICAL SKILLS

Programming Languages: Python, C++, SQL, JavaScript, C#
Systems & Tools: Linux CLI, Git, CMake, SQLite, Unity
Data & Analytics: Pandas, Data Visualization, Anomaly Detection, Log Analysis
Software Concepts: Multithreading, Concurrency, Object-Oriented Programming, Modular Design, Testing, Debugging