Saul Gerda

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Summary

Jr Software Engineer experienced in developing and optimizing modular scripts using C#, Python, C++, and other coding languages. Improved simulation accuracy by optimizing SQF scripts in VBS4 and created a personal server on Raspberry Pi with Docker and Ubuntu headless OS for hands-on project management. Skilled in Visual Studio, Git, and problem-solving. Ready to leverage software development and scripting expertise to deliver effective solutions.

Experience

SAIC   **Oct 2024 - Jun 2025**
Jr Software Engineer   *Orlando*
- Debugged and developed an optimized modular SQF script for mission flow/AI behavior in VBS4, increasing simulation accuracy.
- Implemented multiplayer features with client/server synchronization, leveraging continuous integration pipelines, enhancing gameplay experience.
- Applied company-specific SQF scripting conventions and managed codebase using software configuration management tools in Visual Studio, ensuring code consistency and quality.

US Air Force   **Sep 2017 - Sep 2022**
Ground Transportation   *Little Rock AR*
- Managed 200+ vehicles deploying tracking tools, achieving 97% readiness & 15% downtime reduction.
- Coordinated 500+ missions annually using agile methodologies, improving efficiency by 200 hours.

Skills

- **Programming**: C#, C++, Scripting(SQF), Python, Java
- **Development Tools**: Visual Studio, Android Studio, Git, Database Management, Firebase, VSCode
- **Technical**: Number theory, Graph Theory, Data Structure, Algorithms, Networking, Engineering, Linux Operating Systems, Protocols, Docker Deployment, Debugging
- **Soft**: Detailed-Oriented, Problem Solving, Critical Thinking, Adaptable

Education

Full Sail
Master Degree, Computer Science

Full Sail University
Bachelors, Computer Science

Projects

Simulation Scripting Developer (VBS4)
- Built UAV waypoint system in VBS4 with SQF scripting.
- Designed dynamic navigation/altitude logic for drones.
- Applied company-specific conventions to.

IDS
- Compared and analyzed prediction of RL on Unseen network traffic.
- Create an IDS system to detect and analyze malicious network traffic.
- Created and trained various supervised and Reinforcement learning agents.

Pink Flamingo
- Created a movie webpage utilizing API calls to fast-track development.
- Implemented a multi-page navigation system, making the page flow feel natural and modern.
- Utilized the SCRUM system for tracking tasks and keeping the project on a fast delivery schedule.

Awards

- **Course Director Award:** December 2025, Full Sail University. This award is presented to a student who shows a strong desire to learn about the course subject and go above and beyond.
  * Data Science
  * Data Visualization & Extended Reality
  * Machine Learning
- **Valedictorian:** Dec 2025, Full Sail University

Languages

- Spanish (Native Speaker)