

# Robert Jones

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**Summary** — Motivated, creative recent graduate. Fast learner with experiences ranging to most fields of Tech. Inspired by world cultures, travel, and connecting people with each other VIA well managed and visually appealing programs.

## Skills

<b>Security</b> NMAP, Wireshark, SQL Injections, Virtual Box, DVWA	<b>OS</b> Kali Linux, Ubuntu, IOS, Windows XP
<b>Graphics</b> 2D, 3D, Texture Mapping	<b>Artificial Intelligence</b> Back Chaining, FW Chaining, A*Search, Min/Max
<b>Languages</b> C++ , TyperScript, JavaScript, Java, MIPS32	

## Courses/Experience

### System Security

2025

#### Virtual Box

- Set up multi-system sandbox with Kali, Ubuntu, Windows XP with firewall access control
- Use Wireshark to monitor traffic
- Network configuration.
- Manipulate the security policy to limit traffic through HTTP and SSH access.
- Connect Ubuntu to Damn Vulnerable Web Application
- SQL injections to extract user info
- Perform brute force and Dictionary attacks
- Apply fork bomb to professor's Kali server to, through memory, steal passwords and usernames. Dictionary attack to hack into his system.

### Artificial Intelligence

2025

- Use backward chaining to diagnose type of Cardiovascular diseases
- Use forward chaining to provide a treatment for diagnosed disease
- Use BC to diagnose types of cancer
- Use FC to treat diagnosis
- Apply different heuristic functions to solve a 9 square puzzle with A\*Search
- Apply different evaluation functions to play connect 4 with MIN/MAX algorithm

### Computer Graphics

2024

- 2D and 3D games
- Texture map library decals to geometric hit box
- Real time 3D globe depicting history of earthquakes in an area
- Animate characters and map movements from Salsa Dancing Library
- Open world 3D with user world manipulation. Create still objects, manipulate flat land to create landmarks. First-person perspective based on user.

### Advanced Software Engineering

2023-2024

- Follow requirements list to develop a local library system
- Practiced modular software design by organizing code into separate files
- Created and presented entire SE plan for creating a job interview preparation and feedback program.
- Practiced proper SE processes and how to present them to clients.

### Object Oriented Design

2022

- Created a text-based chess game played in terminal against a computer.
- Used JavaScript to create GUI for the chess games.

### Other Course

2020-2025

- Assembly Language, Data Structures, Computer Architecture, and Computer Ethics

## Education

### Texas State University

*Bachelor of Arts in Computer Science*

*Minor: Business Administration*