

Ameer Khalil

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Education

University of Central Florida

Bachelor of Science in Computer Science

Jan 2024 — Aug 2026

Daytona State College

Associates of Arts

Aug 2020 — Dec 2023

Experience

LumoraClear

Full Stack Developer

Sep 2025 — Present

Python | React Native | Node.js | PostgreSQL

- Built a cross-platform mobile app for managing insurance plans, medical bills, and real-time benefit details using React Native.
- Developed backend services in Node.js and PostgreSQL to sync user plans, billing data, and coverage details across multiple accounts.
- Improved app responsiveness by optimizing API calls and caching high-traffic queries, reducing average load time by ~30%.

Simple C Compiler

Compiler Engineering Project

Jun 2025 — Jul 2025

C

- Implemented hashed, scoped symbol tables enabling reliable resolution of variables and procedures.
- Added support for nested lexical scopes and procedure nesting, increasing parsing correctness and reducing semantic errors.
- Designed a runtime model with activation records and call stacks, enhancing debugging clarity and scope visibility.

Polygon Renderer

Graphics Programming Project

Feb 2025 — Mar 2025

C | WINAPI

- Built a WinAPI desktop application with custom windowing, input handling, and real-time polygon rendering.
- Implemented trigonometry-based vertex calculations and coordinate transforms, improving rendering accuracy and reducing visual artifacts.
- Developed reusable utilities and documentation to streamline debugging and speed up iteration.

2D Game Engine

Game Engine Programming Project

Feb 2024 — Jun 2024

C# | .NET

- Created a custom 2D game engine featuring sprite rendering, basic physics, and real-time collision detection.
- Designed and structured the main game loop to maintain stable frame timing and reduce jitter.
- Implemented tile-based collision, hitboxes, and movement logic enabling interactive gameplay.
- Modularized rendering, physics, and input components, enabling faster future development.

Skills

Programming Languages: Java, C/C++, C#, TypeScript, JavaScript, HTML/CSS, Python

Frameworks & Libraries: Node.js, WINAPI, .NET, Three.js, React Native, React.js, NumPy

Tools: PostgreSQL, Git, Express.js, VS Code

Core Concepts: Data Structures & Algorithms, OOP, REST APIs, Debugging, Software Architecture