

# Braden Coghlanc

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github.com/GusnGabby2

## Education

<b>University of Georgia:</b> BS in Computer Science, Minor in Statistics	May 2026
• <b>GPA:</b> 3.5	
• <b>Certifications:</b> Applied Data Science	
• <b>Achievements:</b> Dean's List Fall 2023 & Summer 2025	
• <b>Clubs/Activities:</b> Sports Analytics Club (Leadership), Pickleball Club, UGA School of Computing Study Abroad	
• <b>Relevant Coursework:</b> Data Structures, Algorithms, Computer Networks, Computer Architecture, Mobile SW Development, VR Development, Software Engineering, Web Programming, Data Science, Statistical Programming, Applied Regression Analysis, Quality Statistical Assurance, Applied Experimental Design	

## Experience

<b>Software Engineering Intern,</b> Terma Group – Atlanta, GA	May 2025 – Present
• Helped build OASIS using C++ from the ground up—an internal test tool that replays and validates Ethernet instrumentation traffic in software, letting engineers avoid long hardware-in-the-loop test sessions.	
• Extended OASIS to work with real recorder data and internal message formats so teams can quickly reproduce issues, probe message timing, and verify configurations without booking lab hardware.	
• Built a Wireshark Script using Lua for the same instrumentation protocol, surfacing IDs, data sizes, timestamps, counters, and bitfields directly in Wireshark to speed up debugging.	
• Led migration of a legacy AppServ stack from a Windows XP box to Windows 11, including full DB dump/restore and privilege recreation; the modern environment is noticeably faster and more stable for day-to-day use.	
• Building a Python/Tkinter “Test App Assistant” that captures Discrete/Ethernet/Serial/1553 user inputs and generates TestApp/EQT-compatible test scripts, enabling repeatable, zero-setup hardware test execution	
• Implemented script generation + logging pipeline (Save/Clear state handling, input validation, and formatted output) to standardize test runs and reduce manual script editing for engineers.	
• Documented setup and usage for OASIS, the Wireshark plugin, and the migrated stack, and collaborated via Git/PRs so other engineers can easily onboard and extend the tools.	

## Projects

<b>VR Volleyball Training Simulator</b>	November 2025
• Built a VR volleyball training app in Unity/C# for Meta Quest 3 with Ready/Start world-space UI, a laser-pointer “world mouse,” and an onboarding flow that guides players into the court.	
• Developed VR grab and highlight mechanics so players can raycast, select, and reposition individual NPCs; the system takes network ownership, syncs movement across clients, and visually highlights the targeted player.	

<b>Online Book Store</b>	May 2025 - July 2025
• Built a full-stack web app using Django REST API, Next.js/React TypeScript, and MySQL, that had user registration/login, profile & shipping management, and a clean component-based UI.	
• Implemented payment-method CRUD with masked display, server-side validation, and optional add at signup	

<b>Travel &amp; Weather App</b>	December 2024
• Designed and developed a JavaFX application to display travel and weather information by integrating APIs.	

## Skills

**Coding Languages:** C++, C, C#, Java, Python, R, SQL, HTML/CSS, JS, Lua

**Technologies:** Git, Green Hills, Android Studio, R-Studio, Wireshark, Linux, BitBucket, Jira, Confluence, Unity