

CONNOR SCULTHORPE

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EDUCATION

Southern New Hampshire University

Bachelor of Arts in Computer Science, minor in Applied Mathematics

Expected 2025

Associate Degree in Computer Science (GPA 3.9)

2024

- Inducted into 3 honor societies for academic and leadership excellence: National Society of Leadership and Success (2024), Alpha Sigma Lambda (2019), and National Society of Collegiate Scholars (2018).
- Two-time medalist in First Lego League (FLL) robotics competition as team lead and lead programmer.

SKILLS

Programming & Development: C++, Java, Python, Assembly, SQL, JavaScript, CSS, HTML, Parallelization, Linear Algebra, Abstract Algebra, Calculus, Software as a Service (SaaS), Data Structures, Algorithms, Software Development Lifecycle (SDLC), Root Cause Analysis, CI/CD, Code Reviews, DevOps, Agile, Object-Oriented Programming (OOP), Software Troubleshooting, Requirements Gathering, Test Automation, Data Analysis, Clean and Maintainable Code, Documentation, Computer Vision

Tools & Infrastructure: Relational Databases, Docker, TCP/IP, Linux, Jenkins, Git, Azure, API's, Operating Systems Concepts

Soft: Fast Learner, Growth Mindset, Cross-Functional Communication, Coaching, Adaptability, Critical Thinking, Problem Solving, Self-Starter, Collaborative, Leadership Experience, Stakeholder Engagement, Cultural Awareness

PROJECTS

Skyrim Game Engine Optimization

- Developed performance improvements to The Elder Scrolls V: Skyrim's game engine with modifications in C++.
- Optimized cell reset timers and improved memory management – reached over 700k launches from 93k unique users and amassing over 4,000k views.
- Conducted root cause analysis of the game engine's asset loading and memory allocation systems, identified legacy inefficiencies through systematic testing and brute-force experimentation to determine optimal system parameters.
- Contributed key optimization elements to the broader Skyrim community patch initiative and addressed memory bloat and physics object persistence issues while improving overall game stability across multiple Bethesda titles.

WORK EXPERIENCE

IT Consultant as an Independent Contractor

October 2023 – Present

Provides hardware and software solutions including custom PC builds, device repairs, and system optimization services as an independent IT Professional serving individual clients in the Laughlin, NV area.

- Restored numerous Falcon channel file 291 affected PC's from the Crowdstrike incident.
- Conducted a security audit following NIST standards of router firmware for Micronet-Union Technologies, with a focus on code analysis and security enhancement of their embedded system.
 - Identified 16 critical vulnerabilities through analysis of code across multiple languages, system dependencies, and libraries, responsibly disclosing them using CWE standards while providing remediation strategies.

Software Developer & Tutor at Preply, Inc.

March 2021 – August 2023

Delivered English as a Second Language (ESL) instruction via one-on-one remote lessons to students across 15 countries.

- Developed a MySQL database, enforcing GDPR compliance and utilized Docker containers with automated tests to deliver secure and efficient solutions, growing long-term student base 6-fold by tracking student data.
- Created and maintained an Ubuntu server for 2.5 years with 99.9% uptime, independently managing IT governance, including security, monitoring, maintenance, and disaster recovery.
- Engineered a secure system in Java with Spring REST and TLS protocols to streamline data collection and analysis.
- Conducted one-on-one virtual tutoring sessions for students from diverse linguistic backgrounds at all levels.

Crew Member at McDonald's

June 2023 – October 2023

Operated the back cash register, taking customer orders and acting as the first point of contact for customers; Earned Employee of the Month (July 2023) for exceptional customer service, teamwork, and continuous improvement in shift performance.

- Awarded Employee of the Month (July 2023) for customer service excellence, hard work, and team support.
- Mentored new team members on processes, becoming a go-to resource for coworkers seeking guidance.