

Caleb Luh

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Summary

Information Technology student at the University of Central Florida with a strong foundation in programming (JavaScript, Java, Python) and IT tools, seeking to apply skills in quantum computing, information science, and cryptography-related roles. Actively pursuing knowledge and certifications in quantum computing and aiming for a Master's and Ph.D. in Quantum Computing.

Education

University of Central Florida, Orlando, FL

Bachelor of Science in Information Technology | Oct 2022 - May 2026

Relevant Coursework: Cryptography & Information Security, Operating System Concepts, Computer Network Concepts, Computer Logic & Organization, Computer Architecture Concepts, Ordinary Differential Equations

Quantum Computing Focus

- Completed IBM certifications:
 - Practical Introduction to Quantum-Safe Cryptography (IBM, Issued 5/19/25)
 - Variational Algorithm Design (IBM, Issued 5/14/25)
 - Basics of Quantum Information (IBM, Issued 5/13/25)
 - Quantum Business Foundations (IBM, Issued 5/13/25)
- Actively exploring the impact of depolarizing noise in quantum channels on QBER and BB84 protocol using Qiskit.
- Experience with hybrid quantum-classical algorithms and quantum circuit design.
- Understanding of quantum entanglement, quantum teleportation and the CHSH game.

Technical Skills

Programming Languages

Java, JavaScript, C/C#, Python, TypeScript, Luau, HTML/CSS, SQL

Software & Tools

Microsoft Access, Autodesk Inventor, Adobe Photoshop, SQLite, Oracle VirtualBox, Wireshark

Operating Systems

Microsoft Windows, Linux, iOS

Areas of Knowledge

Quantum Computing, Quantum Information, Quantum Theory, Networking, Software Configuration, Computer Maintenance, Computer Hardware, Cloud Computing, Cybersecurity, Technical Support, System Integration, Web Development

Projects

Stat Lab (Personal Web Development Project)

Building an NBA stat tracker using Python, JavaScript, and React + Vite. Focus on data aggregation and analysis, with plans to implement real-time updates via API.

Interactive 2D Portfolio Game (Portfolio/Game Website)

Developed a retro-style interactive portfolio using HTML, CSS, and JavaScript, featuring character movement, object interactions, and a fishing minigame. Integrated Firebase Firestore for a persistent online scoreboard.

MS Access Database Implementation (CGS 2545C Course Project)

Created a relational database in Microsoft Access, including data integrity measures.

Active Directory & Virtualization Setup (CNT 4603 Course Project)

Managed a virtual network using Oracle VirtualBox, implemented Active Directory Domain Services, and wrote PowerShell scripts.

Certifications

- Variational Algorithm Design (IBM) - May 2025
- Basics of Quantum Information (IBM) - May 2025
- Practical Introduction to Quantum-Safe Cryptography (IBM) - May 2025
- Quantum Business Foundations (IBM) - May 2025
- JavaScript Fundamentals (Mozilla) - May 2025
- Microsoft IT Support Specialist (Microsoft) - April 2025
- TestOut IT Fundamentals Pro (CompTIA) - Dec 2024
- Level 3: Excel Purple Belt (McGraw Hill) - Dec 2022
- Autodesk Inventor Certified User (Autodesk) - Mar 2020

Professional Experience

World of Beer Franchising, Inc., Orlando, FL

Server Assistant | Apr 2024 - Apr 2025

- Enhanced customer satisfaction by managing orders and table turnover.

Lorleberg's True Value Hardware & Rental, Oconomowoc, WI

Floor Associate | Sep 2019 - Present

- Managed cash handling and inventory.
- Troubleshooted desktop and POS issues.