Luke Anderson

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EDUCATION

University of Central Florida — Orlando, FL
Bachelor of Science in Honors Computer Engineering, Minor in Physics — *Aug. 2022 – May 2026*

St. Petersburg College — St. Petersburg, FL
Associate's in Liberal Arts — *Aug. 2020 – May 2022*

EXPERIENCE

Software Engineering Intern — Jan. 2024 – Present
Airmeez Inc. — *Remote*
- Use GoLang to design, build, and test API's that tranfer data to and from Airmeez main server
- Develop new APIs that integrate the main server with SIP VoIP devices

Undergraduate Research Assistant — Aug. 2023 – Present
University of Central Florida — *Orlando, FL*
- Used a Quantum Computing specific Python library (Qiskit) to modify a quantum circuit and then used TensorFlow to optimize the circuit for error reduction
- Implementing various Python skills to simplify and add fields to the input and output
- Learned how to use GitHub to collaborate with my Professor

Pricing Administrator — Jun. 2023 – Dec. 2023
Restaurant Equipment World (Pierce Sales Co., Inc.) — *Orlando, FL*
- Manage Excel spreadsheets to upload to the REW system to ensure all prices on website are current
- Problem solve when presented with complicated pricing lists
- Work with coworkers and management to ensure an efficient and timely upload process

TECHNICAL SKILLS

Languages: Java, Python, C, GoLang, HTML, CSS, JavaScript, PHP, SQL, MIPS Assembly
Developer Tools: GitHub, VS Code, Jupyter Notebooks, Ubuntu, Excel, KiCad, Google CloudShell, PubSub
Libraries: Qiskit, SipGo, Basics of: TensorFlow, OpenCV, TabulaPy, Matplotlib

PROJECTS

SIP MWI | *GoLang - SipGo, net/http, google pubsub and storage* — Jan. 2023 – Apr. 2024
- Developed an API that converts SIP data to JSON format
- Sends data to Google Cloud Storage and Google PubSub then on to the main Call Completion Engine
- If subscribed user had waiting message(s), the main server contacted my API which then notified the SIP user's device

Movie Theater Management Programs | *C* — Aug. 2023 - Nov. 2023
- Tasked with creating various programs to handle functions such as: ticket buying, concession stand processing, theoretical circular projector angle, seating arrangements, loyalty/rewards program
- Implemented data structures such as 2D array, linked list, hash table, binary search tree
- Implemented core concepts such as: recursion, sorting algorithms, and computation of radial numbers
- Learned how to test a program in depth myself to ensure it satisfies all test cases

RELEVANT COURSEWORK

Math and Science: Calculus 1-3, Differential Equations, Physics 1 and 2, Mechanics, Theoretical Methods of Physics, Wave Mechanics 1 and 2, Chemistry 1
Computer Science: Introduction to C, Computer Science 1 and 2 (DSA), Introduction to Object Oriented Programming, Introduction to Discrete Structures, Introduction to Quantum Computation
Computer/Electrical Engineering: Linear Circuits 1 and 2, Digital Systems, Computer Organization, Computer Architecture