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 of Liberal Arts — *Aug. 2020 – May 2022*

EXPERIENCE

Software Engineer — Jul. 2024 – Present
Necival LLC. — *Remote*
- Use various languages such as PHP and GoLang to build financial systems
- Aid in developing and managing various software projects

Software Engineer Intern — Jan. 2024 – Jul. 2024
Airmeez Inc. — *Remote*
- Used GoLang to design, build, and test Rest API's that tranfer data to and from Airmeez main server
- Developed new APIs that integrate the main server with VoIP and other telecommunication 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

TECHNICAL SKILLS

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

PROJECTS

SIP Message Waiting Indicator (MWI) | *GoLang - SipGo, net/http, google pubsub and storage* Jan. 2023 – Apr. 2024
- ∗ Developed a Rest API that converted 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 contacts my API which then notifies the SIP user's device

Online Planner | *LAMP Stack* — May. 2024 - Present
- ∗ Designed and built the backend for a web based planner application in this group project
- ∗ Created a user login system and CRUD operations for the to-do list in the planner
- ∗ Created a basic front-end for testing purposes
- ∗ Learned how to deploy and update a LAMP stack on AWS Lightsail

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