Charles Nimo

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Education:

Masters in Computer Science, Spring 2023, The University of Texas at Austin

Virginia Commonwealth University (VCU), Richmond, VA

Bachelor of Science in Computer Engineering May 2017

Minor: Computer Science

Skills:

- C/C++, Java, Python, Spring Framework Development, RESTful API design, Linux Shell programming, Assembly, Spring framework, reactive programming, Swift 3.0, version control management in GIT
- Experience with Android, iOS, and Web Application Development
- Software Engineering principles and practices
- Understanding of computer architecture and performance optimizations
- Program on ARM microprocessor using C/Assembly programming language, interface sensors & I/O devices

Publications:

Leccadito, M., Yemaneberhane, B., **Nimo, C**., Bakker, T., Klenke, R., (2017). *Investigating Encrypted IEEE 802.15.4 and DigiMesh Communications for Small Unmanned Systems*, AIAA Information Systems-AIAA Infotech @ Aerospace, AIAA SciTech Forum.

Relevant Experience:

Graduate Intern – Data Platforms Group, **(Intel, Remote/Austin, Texas)** *May* 2021 – August 2021

- Worked with the Mathematical Modeling team in the Data Platforms group to improve their data processing and visualization tools that they use to gain insights on vast amounts of data to render smart solutions for Intel Customers.
- Used regression machine learning technique to make predictions to determine optimal configurations for a given simulation model system.

CoFounder | CTO – **Graduhit** *May* 2020 – Present

- *I am a co-founder of Graduhit, an AI-powered web application that leverages a recommender system that helps students discover personalized career matches based on user's cultural fit, preferences, interpersonal characteristics, and resume.*

Software Engineer II, backend – OpenManage Enterprise (SDK), **Dell, Round Rock, TX** *June* 2017 – May 2021

- Worked to migrate an existing service as a reactive microservice to a non-blocking and asynchronous event-driven solution that resulted in huge performance enhancements in a number of areas including memory footprint, CPU load, thread utilization, data loss, and overall system responsiveness.

Software Engineer II, backend – OpenManage Enterprise, **Dell, Round Rock, TX** *June* 2017 – May 2021

- Worked on a solution in response to a request by the Department of the Defense (DOD) for account management in the application. As a result, it provided improvements to user experience for session management, account configuration, session sync between multiple connected consoles in a network while also enhancing the security and integrity of the application.

Software Engineer II, backend – OpenManage Enterprise Modular, **Dell, Round Rock, TX** *(June 2017 –* May 2021*)*

- Designed and developed several server-side RESTful API's using the Spring Framework in Java for factory settings on the management console.
- Improved security by implementing secure authentication mechanism for users on for account sessions in the management console using python and RESTful API's in Java.
- Configured and implemented solutions to bolster the security of user sessions in the server-side development environment
- Worked to solidify Field Service Debug Workflow for Dell-RACADM in OpenManage Enterprise Modular

Intern Undergrad Associate – Embedded Firmware Engineer, **Dell, Round Rock, TX** *(Summer 2016)*

- Worked as a firmware engineer on the next generation of Dell PowerEdge servers
- Created a binary, packaged in firmware, that retrieves critical server data (system info, sensor data, etc.) from iDRAC and writes it to a VGA Display in C language
- Binary allows iT administrators and server personnel convenient access to system information and reports actions performed on server

Undergraduate Research Assistant with the VIP Collaborative UAV Team at VCU (Fall 2015 & Spring 2016)

- Worked as member of two-person team on a Vertically Integrated Project (VIP) for Unmanned Aerial Vehicle research
- Established secure communication between ground control station and flight control system using an XBEE 802.15.4 wireless module
- Developed tests to analyze the performance of XBEE at different baud rates, packet sizes with encryption enabled
- Presented the associated paper at the AIAA 2017 SciTech Exhibition in Grapevine, Texas