My experience with QuantHub & O’Neal Industries

Presentation by Alexander Nix

A Bit About Me

I’m a Northridge High School Graduate and I’ll be attending UAB this August with a major in Computer Science and a minor in Music.

I really enjoy programming and building computers, which I’ve been doing since I was 10 years old.

I really enjoy writing and playing music on guitar and bass.



Fun Facts About Me and My Goals

FUN FACTS:

- I’m a Photographer
- I’m industry certified in Java and Python
- I skateboard in my free time
- My other passion besides computer science is music

My Goals:

- Obtain a Master’s degree in computer science
- Obtain industry certification in 3 other coding languages including SQL
- Get a job in cyber security

A Bit About My Host Company

O'Neal Industries (ONI) is the United States' largest family-owned network of metals service centers and component and tube manufacturing businesses. Headquartered in Birmingham, Alabama, the company has a rich history dating back to its founding in 1921. ONI has many partner companies including O'Neal Steel, Leeco Steel, TW Metals, and United Performance Metals.



The Project

My internship at ONI centered around migrating data pipelines from a legacy data collection system (Oracle Data Integrator) to a newer, cloud based data collection system (Microsoft Azure). Both programs are SQL based and directly communicate with SQL servers to store collected company data.

Access to Oracle Data Integrator required the use of linux based virtual machines due to the program's age, and many of the dataflows within ODI had to be cut and streamlined since certain aspects were not being used or updated.

4 Important Skills I Learned:

01

SQL server management

Learning how to build data flows and data sinks to transform and store data.

02

Using Virtual Machines

Learning how to set up and use virtual windows environments.

03

Workplace communication

Using Microsoft Teams to join remote meetings and effectively communicate with staff

04

Scheduling

Effectively scheduling meeting times and work times for a remote position

Alabama Data Scholars

The Alabama Data Scholars program has allowed me to make incredible connections as well has help teach me the skills mentioned in the last slide over the summer. I have met some incredible people in the CompSci field and I've been able to have a real experience with what working in said field would entail. The program also connected me with other like minded individuals my age as well as offering me a chance to attend Sloss Tech.



Special Thanks to QuantHub and O'Neal Industries!

I'd like to give a special thank you to Kelsey P. and QuantHub for giving me this incredible opportunity and jump starting my career in tech! I would also like to extend my gratitude to O'Neal Industries for hosting me as an intern and giving me a wonderful experience within the CompSci field. I've learned so much over the past few months and I can't wait to continue to build my knowledge!

