

Shang Andrews II (he/him)

|+1 (571) 383-8990 | shanglandrews@gmail.com

LinkedIn | www.linkedin.com/in/shang-andrews2 | @Shang Andrews II

Handshake Profile: <https://app.joinhandshake.com/users/25699749>

EDUCATION

Queen Mary University of London through the ESU and Luard Morse Scholarship (Spring 2023)

- Studied Electrical Engineering and Machine Learning

Bachelor of Science: Computer Engineering class of 2024, North Carolina A&T State University Greensboro, NC

Masters of Science: Artificial Intelligence, expected graduation: December 2027, DePaul University Chicago, IL

Most Recent Job Position: Juniper Networks DevOps Intern(May-August 2023)

Position of Interest: Software Engineer Full-time/Internship

EXPERIENCE

Juniper Networks DevOps Intern for the CTO Team(May-August 2023)

- I worked alongside DevOps engineers where we had to test, build, and maintain infrastructure and tools. The main tools I used were Kubentes, Ansible, Docker, and cloud platforms like AWS, Azure, and Google Cloud.

Worked with Ansible to create automation tasks.

- I created an Ansible operator to automate any installation processes required when setting up a virtual machine. The operator utilizes Ansible playbooks and docker to run playbooks on multiple machines, including on-prem and in the cloud
- The original internal tool was only able to connect to one machine, but I leveraged SSH connections to allow Ansible to connect to multiple servers securely.
- With this new operator, Juniper is now able to make its workflow much simpler and faster.

SAS Inc. DevOps Pipeline Intern in the R&D Department(May 2021-August 2022)

- My team acted as the “guinea pig” when we tested applications within Microsoft’s cloud platform, so every task completed required detailed and beginner-friendly documentation so that others could replicate the same task easier and faster. Confluence was the documentation platform used.

Running Applications in a container and a Kubernetes cluster for better visibility and stability.

- Testing the version of the Tomcat Docker container to see the costs vs. benefits of the size and speed of each container. This allowed me to create my specialized container for the application easily
- Added health endpoints for monitoring and exposed the logs for better visibility.

Utilization of Microsoft Azure, a cloud platform by Microsoft

- Aided team in transferring the CI/CD pipeline into the cloud.
- Created from start to finish an Ubuntu virtual machine within Azure using a Linux environment
- Deployed an Azure Kubernetes Service (AKS) cluster with a VPN subscription in Azure and edited the cluster further using Docker.

Research Assistant at NSF CREST Bioenergy Center at NC A&T(September 2023 - May 2024)

- Assist with literature reviews, digital data compilation, market research, writing research reports and journal articles, and preparing presentations.
- Researching how large language models like ChatGPT can assist researchers in literature reviews and citations.
- I Help create models of the pyrolysis and gasification process using Aspen Plus, a process modeling tool used for process monitoring, optimization, and conceptual design

Resident Assistant (September-June 2022)

- Worked alongside peers to aid incoming students during their stay at the university
- Leader in de-escalating situations and alerting management to resolve immediate issues.

SKILLS

- Programming languages: C/C++, Java, Python
 - Worked on data structures, algorithms, and sorting principles in all languages
- Experience with Hackathons/Capture the Flag events
 - Placed top 3 in 2021/2022 NCAT Hackathon as well as Juniper Network’s company-wide capture the flag cyber security event.

