**NOLAN SENN**

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**Education**

George Mason University, Fairfax, VA

Bachelor of Science in Information Technology (Expected Graduation: December 2023)

Concentration in Cloud Computing

Current GPA: 3.55

Related Coursework: Database Fundamentals (SQL), Information Security, Object-oriented Programming in Python, Network Fundamentals, Cloud Architecture

**Experience**

**Amazon Web Services June 2022 – August 2022**

**Cloud Support Associate Intern**

-Participated in an extensive training course covering AWS services such as EC2, S3, IAM, RDS, Load Balancers, and Auto-scaling groups, as well as the fundamentals of security and networking  
-Designed disaster recovery architecture for a web app for high availability and recovery across availability zones and regions.  
-Created a WordPress website, implementing EC2 instances as the web server, a MySQL RDS server as the database, and EFS as a shared file system to store WordPress files. Implemented an Application Load Balancer and Auto-scaling groups to provide high availability across AZs.  
-Learned the basics of containerization through the use of Docker and Kubernetes, and how they integrate with AWS services such as ECS, EKS, and ECR  
-Presented a live, 20 minute demonstration of creating a Docker file and uploading it to an ECR repository to manager, mentor, and peers.  
-Completed over 15 hands-on labs troubleshooting common problems with different AWS services such as EC2, IAM, Lambda, Cognito, and ACM.   
-Passed both AWS Solutions Architect and Cloud Practitioner exams.

**IT Cadre June 2021 – August 2021**

**Software Development Intern**

-Converted a Windows Flask Application running a PostgresDB onto a Ubuntu Linux Virtual Machine  
-Deployed application on company intranet using an Apache web server, providing access to 80 employees   
-Connected Linux VM onto company intranet by configuring a bridged network within Oracle VirtualBox  
-Setup DNS for the application by adding an A record via Active Directory on Windows Server   
-Installed company SSL certificate into Apache configuration, allowing secured access on HTTPS  
-Wrote SQL script to initialize database and managed SQL database using PostgreSQL  
-Produced relevant documentation for use and deployment of application  
-Created and managed user permissions within Ubuntu to allow/restrict access to application, as well as opening relevant ports for application protocols  
-Created a basic single node Kubernetes cluster using Minikube  
-Collaborated with small team of software engineers, including in-person daily meetings and weekly briefing