

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