Joel P. Antwi

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EDUCATION

George Mason University	May 2027 (Expected)
Bachelor of Science, Information Technology	Cloud Computing Concentration

RELEVANT COURSEWORK

Information Security, Python Programming, SQL, Web Design, IT Fundamentals, Network Fundamentals, Data Structures & Algorithms, Cloud Computing, Database Management, and Operating Systems.

CERTIFICATIONS

AWS Certified Solutions Architect	Mar. 2024
AWS Certified Cloud Practitioner	Dec. 2024

Technical Skills

- **Languages/ Framework:** Python, HTML/CSS, Bootstrap
- **Cloud Platform:** AWS (EC2, S3, RDS, Lambda Code Pipeline, CodeDeploy)
- **Operating Systems:** Linux, Ubuntu
- **DevOps**: Git, GitHub, Docker, Jenkins, AWS CloudFormation, YAML, Bash Scripting, Terraform
- **Other Skills:** Microsoft Office Suite Proficiency, Fundamental Network Concepts, Jira, Confluence
- **Data Analytics:** Power BI, Excel

EXPERIENCE

ICBF Church Volunteer	Aug. 2024 – Present
IT Specialist	*Centerville, VA (On-Site)*

- Created IAM roles for three users in AWS, improving access control and resource security.
- Uploaded and configured sermons stored in Amazon S3 to the church's WordPress website, ensuring timely updates reduced manual updates by 40% through automation improvements.
- Enhanced website functionality leading to a 20% increase in user engagement with media content.
- Installed and ran CAT 7 cables throughout the church building to enhance Wi-Fi speed and improve network reliability.

T&T Consulting Services	Jun. 2024 – Aug. 2024
Software Testing Intern	*Falls Church, VA (Remote)*

- Conducted product testing for web applications, identifying and resolving 15+ critical bugs, which improved application performance by 20%.
- Automated testing workflows using Microsoft Power Automate, reducing manual effort by 30% and increasing testing efficiency.
- Documented test results and recommended performance improvements, leading to a 15% reduction in post-release issues.

Cloud Space Consulting LLC	Aug. 2023 – Present
Teacher Assistant	*Manassas, VA (Remote)*

- Assisted as a Teaching Assistant (TA) for junior developers, guiding them through AWS cloud architecture and best practices.
- Facilitated workshops on key AWS services (EC2, S3, RDS, Lambda), enabling participants to improve their ability to build scalable cloud solutions by 35%.

WordPress Application Hosted on AWS EC2

• Deployed a scalable and secure WordPress website on AWS EC2, integrating it with Amazon RDS for database management and EFS for storage.

• Implemented Auto Scaling groups and SSL certificate integration, optimizing performance and reducing hosting costs by 25%.

• Enabled AWS CloudTrail to log API calls across services, ensuring detailed visibility into user activity and enhancing security through real-time auditing.

• Leveraged AWS Config and CloudWatch for compliance tracking and continuous monitoring, enabling faster detection of configuration changes and potential security risks.

Automated the hosting of website files on an S3 bucket using AWS CodePipeline

• Automated Website Hosting on **S3**: Leveraged AWS **Code Pipeline** to automate the deployment of a static website built with HTML and CSS, improving update delivery speed by 25%.

Expense Application | GitHub: https://github.com/Jantwi23/

• Developed a **Python**-based terminal application with a secure login system to track expenses, set budgets, and generate category-wise expense summaries, ensuring data persistence using text files.

• Implemented modules for expense and budget management, including adding, updating, and resetting expenses, and providing users with actionable financial insights.

Automated Containerized Application Deployment Pipeline
GitHub: https://github.com/Jantwi23/Jenkins-Repo

• Created an Automated Containerized Application Deployment Pipeline project, developing a Jenkins CI/CD pipeline to automate the end-to-end deployment of a containerized application, from code retrieval to image deployment on Docker Hub.

• Designed a modular pipeline structure with informative feedback at each stage, optimizing the software delivery lifecycle for efficiency and streamlined development.