

Chukwuemeka Achilefu

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Summary

- With 2+ years as a Software Developer at Dockridge Digital Inc, I designed and developed user-friendly websites, implemented SEO strategies, addressed web application security vulnerabilities, and collaborated in an agile team using technologies like React, Angular, and ASP.NET.
- With 2 years as a Cloud Engineer at Supreme Creations, I designed and deployed fault-tolerant cloud infrastructures, CI/CD pipelines, and migration solutions on AWS, leveraging services like CloudFormation, Route 53, and CodePipeline.
- Over 3 months as a Communications Intern at Labrador-Grenfell Health, I enhanced organizational communication tools by managing websites, fixing software bugs, editing multimedia content, and maintaining social media platforms.
- During 8 months on a Marine Mammal Classification Project at Memorial University, I built a machine learning model for marine mammal sound classification using TensorFlow, Keras, and Scikit-learn, optimizing performance with various algorithms and distributed computing.
- Over 4 months on a Virtual Presentation Software Project at Memorial University, I designed and developed a presentation software using JavaFX and MVC architecture, emphasizing quality assurance and agile development.

Work Experience

Software Developer

Oct 2021 – Apr 2024

Dockridge Digital Inc, St. John's, NL, Canada.

- Develop and maintain user friendly and visually appealing websites with HTML, CSS and JavaScript.
- Back-end development with PHP, REST API, JavaScript and Liquid.
- Optimization and implementation of SEO strategies to enhance website traffic.
- Web Application XSS, CSRF, SQL and HTML injection vulnerabilities checks against cybercrime.
- Web Application development with ASP.NET, React and Angular in an agile environment.
- Designed mock-ups using Adobe XD and Figma that met and exceeded the standard for a great user experience and user interface.
- Oracle database management and the utilisation of other database technologies like the Amazon RDS and postgresSQL.
- Collaborate with an agile team to utilize client's requirement specifications to create an efficient and effective software design.

Cloud Engineer

Feb 2022 – Feb 2024

Supreme Creations, St. John's, NL, Canada.

- Built and hosted websites on AWS using a variety of services such as HTML, CSS, JavaScript, CodePipeline, Route53, CloudFront, Certificate Manager, and S3Bucket.
- Utilized CloudFormation to automate resource deployment and ensure consistency across environments.
- Designed and implemented CI/CD pipelines using AWS CodeCommit and AWS CodeBuild to streamline software delivery and improve release frequency.
- Designed fault-tolerant and highly available architectures using draw.io and multiple AWS resources to maximize uptime and minimize downtime.
- Utilized AWS CodePipeline to automate resource deployment and reduce manual intervention.
- Designed and implemented infrastructures to migrate clients from on-premises to the cloud using AWS services such as AWS Server Migration Service and AWS Database Migration Service.
- Securely managed users and groups using AWS IAM to ensure proper access control and minimize security risks.
- Built auto-scaling groups to increase resource availability and ensure high availability of resources.
- Managed user routing to various resources using Amazon Route 53 routing policies to optimize traffic flow and improve user experience.

- Monitored resource performance using Amazon CloudWatch and sets up Amazon SNS to proactively identify and resolve issues.
- Troubleshoot issues related to AWS services and resources to ensure smooth operation and improve resource effectiveness.

Communications Intern (Web Developer) ^[OBJ]

Jul 2021 – Oct 2021

Labrador-Grenfell Health, Happy Valley-Goose-Bay, NL, Canada.

- Researched and developed policy documents that had a great impact on the use of the organization's communication tools.
- Fixed software bugs and implemented new features.
- Edited pictures and videos with Adobe Photoshop and Adobe After Effects.
- Built and maintained creative websites using WIX, Shopify and WordPress ensuring that they are user friendly.
- Managed the organizations social media platforms to increase the positive impacts of public relations.

Software Developer, Marine Mammal Classification Project

Sep 2020 – Apr 2021

Memorial University of Newfoundland, St. John's, NL, Canada.

- Designed and implemented an intelligent system for marine mammal sound classification using python that brought a positive impact to ongoing marine research.
- Extraction and manipulation of big data for the implementation of a neural network for classification.
- Exercised problem-solving skills by applying other machine learning algorithms such as the random forest, decision tree and others to find the most efficient algorithm for the machine learning classification.
- Utilised Keras, Tensorflow and Scikit libraries on Anaconda to carry out this machine learning project.
- Utilized distributed computing to increase processing power.

Software Developer, Virtual Presentation Software Project

Sep 2020 – Dec 2020

Memorial University of Newfoundland, St. John's, NL, Canada.

- This project focused on an Agile software design and development of a presentation software such as the Microsoft PowerPoint.
- Analysed system requirements and developed the system user story, states, and domain model on Virtual Paradigm.
- Exercised organizational skills by working with Gitlab to enable efficient and effective completion of tasks.
- Object-orientation software development with Java and its libraries such as JavaFX and scene builder to create an exceptional user experience.
- Ensured quality assurance of code by carrying out unit testing of code.
- Utilised Model View Controller (MVC) architecture in the software design.

Education

Master Of Applied Science in Computer Engineering

Sep 2019 - May 2021

Memorial University of Newfoundland, St. John's, NL, Canada.

Bachelor Of Engineering in Electrical Engineering

Sep 2014 - June 2017

University Of Sheffield, Sheffield, United Kingdom.

Skills

• **Technical Skills**

- **Languages:** Java, Scala, JavaScript, Python, Go, C, C#, CSS, SASS, TailwindCSS, SQL, HTML, TypeScript, LiquidJS, Ruby, Groovy, PHP, Shell, AWK, XML.
- **Tools:** EC2, AWS Lambda, ElastiCache, S3, Amazon RDS, Route 53, SQS, SNS, Amazon CloudTrail, Amazon CloudWatch, Amazon X-Ray, Cloud Formation, IAM, Amazon CloudFront, Adobe XD, Draw.io, REST-API, AWS CodeBuild, AWS CodePipeline, AWS CodeCommit, Git, Firebase, MongoDB, Docker, Jira.
- **Frameworks:** Amazon SageMaker, Express.js, Vue.js, Anaconda, Django, Flask, React, Redux, SpringBoot, Angular, ASP.NET.

• **Soft Skills**

- Excellent oral and written communication skills.
- Excellent interpersonal skills with ability to work independently.
- Excellent problem-solving skills, coding solutions and debugging problems.

- Ability to work within a team practicing agile and coordinate a team.
- Determination to learn and apply new skills, principles and solutions.
- Knowledgeable and experienced in writing maintainable and easily scalable clean code, software development best practices, performance optimization OOP, test driven development, design patterns, data structures and algorithms, REST APIs design, and JavaScript front-end frameworks.

Professional Trainings and Certificates

- AWS Cloud Practitioner.
- AWS Solutions Architect Associate (in progress).
- ISTQB Foundation Level Certification (CTFL).