**Abdur Rahman**

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**WORK EXPERIENCE**

**DevOps Intern**  Sep 2022 - Present

16Bit.ai | Toronto, Canada

* Strategically optimized the product's infrastructure on AWS, resulting in a remarkable cost reduction of over 50% while fortifying network security.
* Improved the product's availability and fault tolerance through dynamic horizontal scaling on AWS, ensuring uninterrupted service and enhancing user experience.
* Automated integration testing using PyTest, effectively saving over 4 hours of manual testing time in each sprint.
* Developed Python scripts to streamline product installation on customer sites, significantly reducing onboarding time by over 200%.
* Actively engaged with potential customers as the lead developer, providing technical guidance and support to drive customer success which increased product adoption by over 20%.
* Architected and developed a cloud-native version of the product on Kubernetes and packaged it as a Helm chart for ease of deployment, distribution and versioning.
* Enhanced operational efficiency by implementing GitOps at scale using Rancher Fleet, enabling centralized management of multiple K8s clusters on a single dashboard.
* Established robust Kubernetes cluster monitoring through Prometheus & Grafana and introduced container log aggregation using Grafana Loki.
* Implemented a reliable cluster backup and restore solution using Velero, guaranteeing data integrity and swift disaster recovery.

**Backend Engineer**  June 2021 - Aug 2022

BuyerAssist.io | Pune, India

* Developed an event-driven serverless integration framework using AWS Lambda and EventBridge, facilitating seamless synchronization of customer data between Salesforce and BuyerAssist.
* Designed and implemented a configuration-driven framework to enhance the pattern-matching capability of AWS EventBridge, preventing over 1000 false invocations of AWS Lambda functions every day.
* Implemented a system to track asynchronous data transfer jobs through AWS AppFlow, which reduced the issue tracking time to under 5 mins.
* Developed a Salesforce app using SFDX to provide clients with a customized experience within their Salesforce dashboard.
* Developed a Slack bot that sent interactive daily notifications to customers, enabling them to take direct actions from Slack. This streamlined operations and boosted sales by over 50%.

**PROJECTS**

**Kindle to Notion** [View in GitHub](https://github.com/arkalim/kindle-to-notion)

* Developed a NodeJS application that seamlessly synchronizes highlights captured on a Kindle e-reader with Notion, my preferred productivity management app.
* Implemented an efficient incremental sync mechanism, eliminating the need for re-syncing old highlights.
* Containerized the application using Docker and established a CICD pipeline to build and push a new image every time the application is modified.
* Leveraged GitHub Actions to automate syncing of highlights whenever updates are made.
* Proactively fostered a community of developers who actively contribute to the project, enabling continuous improvement and growth.

**Obsidian Publish using GitHub Action** [View in GitHub](https://github.com/project-cool/obsidian-publish-action)

* Developed a NodeJS application to parse and convert Obsidian notes to MkDocs markdown format.
* Built a CICD pipeline using GitHub Actions to publish the notes as a static website every time the notes are modified.
* Implemented image auto-compression to optimize loading speeds on web browsers, enhancing the overall user experience.

**CERTIFICATIONS**

**AWS Solutions Architect - Associate (AWS SAA)** [View credentials](https://www.credly.com/badges/dfc84bb4-75ab-449f-bdf5-4dc85eb12ad6/public_url)

**AWS Developer - Associate (AWS DVA)** [View credentials](https://www.credly.com/badges/b08022fe-627a-4b78-8647-b42955f50767/public_url)

**EDUCATION**

**MSc in Applied Computing (MScAC)** *- Computer Science* Sep 2022 - April 2024

University of Toronto (Canada)

**Bachelor of Technology (B. Tech.)** July 2017 - May 2021

National Institute of Technology, Trichy (India)

**SKILLS**

DevOps | Docker | Docker Compose | Kubernetes | CI/CD | GitOps | Argo CD | Helm | Kustomize | GitHub Actions | Cloud | AWS | GCP | Jenkins | Ansible | Automation | Terraform | NodeJS | Python | JavaScript | TypeScript | Backend Development | FastAPI | Bash | Scripting | Linux | Logging | Monitoring | Prometheus | Grafana | Project Management | Communication | Leadership | Time Management | Adaptability | Problem Solving | Teamwork | Creativity