MADHUCHERAN

Programmer Analyst | AWS Cloud & DevOps

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Professional Summary

Programmer Analyst at Cognizant with 1+ year of experience in website content and SEO. Hands-on project experience with Docker, AWS EC2 and GitHub Actions CI/CD. Seeking Cloud and DevOps engineering opportunities.

Technical Skills

- **Cloud:** AWS (EC2, S3, Elastic Beanstalk)
- **Containerization:** Docker
- **CI/CD:** GitHub Actions, Jenkins (Basic)
- **Infrastructure as Code:** Terraform (Basic)
- **Orchestration:** Kubernetes (Basic)
- **OS & Version Control:** Linux, Git, GitHub

Professional Experience

Cognizant Technology Solutions — July 2025 – Present

Programmer Analyst (PA) | Web Content Management & SEO

Technologies: OpenText TeamSite, Jira, SEO, 301 Redirects

- Maintained and updated enterprise website content using the OpenText TeamSite CMS, ensuring accurate and timely publishing of content changes.
- Optimized on-page SEO by writing and updating meta titles and meta descriptions to improve search visibility.
- Implemented and managed 301 permanent redirects to preserve link equity and prevent broken links after URL changes.
- Tracked, updated and closed assigned tasks in Jira to keep deliverables organized and visible to the team.

Projects

FastAPI Application Deployment on AWS EC2 using Docker and GitHub Actions — GitHub Link

AWS EC2 | Ubuntu Linux | Docker | Docker Hub | GitHub Actions | Python | FastAPI | Bash | Git

- Developed a Dockerized FastAPI application with a dedicated `/health` endpoint for application health monitoring.
- Implemented a GitHub Actions CI/CD pipeline to automatically build Docker images and push versioned images to Docker Hub on every push to the `main` branch.
- Automated application deployment to AWS EC2 using SSH and SCP through GitHub Actions.
- Created a Bash deployment script to pull the new image, launch a candidate container, and verify application health before promoting it to production.
- Configured Docker health checks and maintained version-specific image tags using Git commit SHA for deployment traceability.
- Managed deployment credentials through GitHub Actions Secrets to avoid exposing sensitive credentials in the repository.

2048 Game Deployment — GitHub Link

Docker | AWS Elastic Beanstalk | GHCR

- Containerized the 2048 web application by creating a custom Docker image.
- Published and hosted the Docker image on GitHub Container Registry (GHCR).
- Configured AWS Elastic Beanstalk for container-based application deployment.
- Deployed the containerized application using the published Docker image.

Technical Publication

Using GitHub Container Registry (GHCR) to Host Your Docker Images — Hashnode | July 2024

Education

Bachelor of Engineering in Computer Science and Engineering — 2021 – 2025

Kongu Engineering College, Perundurai — CGPA: 7.25 / 10