Anower Hossen Zihad

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Github | LinkedIn | Leetcode | Codeforces

EDUCATION

- **Chittagong Independent University** — Chittagong, Bangladesh
  Bachelor of Computer Science and Engineering; CGPA: 3.90/4.00 — *Sep. 2018 – Aug. 2022*

WORK EXPERIENCE

- **TS4U** — Warren, Michigan, United States
  Junior DevOps Engineer — *Feb. 2023 – April 2024*
  - Deployed and monitored multiple **three-tier** and **microservices** applications on the **AWS cloud platform**, utilizing various **Containerization, Container Orchestrator, IAC** and **CI/CD** tools.
  - Built several containerized microservices applications, including E-commerce app and Field Force Management app with **Kubernetes** and **Docker**, enabling quicker and more efficient software delivery.
  - Automated infrastructure deployment and configuration using Infrastructure-as-Code (IaC) tools such as **Terraform** and **Ansible**, minimizing manual errors and **enhancing efficiency up to 30%.**
  - Implemented and optimized **CI/CD pipelines** of the mentioned microservices using **GitLab CI/CD, GitOps/ArgoCD,** and **Jenkins** to automate the build, test, and deployment processes, resulting in a great reduction in release cycle times and an increase in overall product quality.
  - Set up and maintained AWS cloud services such as **VPC, RDS, S3, IAM, Load Balancer,** and **Auto-scaling Group** allowing for effective cloud resources management of two-tier applications.
  - Integrated monitoring and logging solutions, such as **Prometheus, Grafana**, and the **EFK stack**, which enable proactive identification of issues and resolution.

PERSONAL PROJECTS

- **Urban Bangla**
  Github:http://github.com/zihadbappy/urbanbangla | Live: https://urbanbangla.herokuapp.com
  - Designed and developed a web app to store modern Bengali words(i.e. internet words/slangs) that may not be in orthodox dictionaries using the **Flask** framework and **RESTful API**.
  - Users can login using Google account, submit new words, view/search/upvote/downvote words, and navigate using pagination.
  - **Tech Stack:** *Flask, Mongodb, GoogleAuth*

- **WebRTC video chat app:** :
  Github: *https://github.com/zihadbappy/WebRTC-VidChat*
  - Utilized the **WebRTC API** to build a web app that lets users video chat in rooms in a peer-to-peer system.
  - Configured the TURN server for relay connection on **AWS EC2**.
  - **Tech Stack:** *Nodejs, Expressjs, WebRTC, peerjs, Web sockets*

TECHNICAL SKILLS

- **Languages:** Python, Javascript, Bash, SQL, C/C++, Java

- **Technologies:** AWS Cloud Services(EC2, VPC, S3, RDS, CloudFront, ECR Load Balancing etc.), Docker, Kubernetes, Terraform, Ansible, GitOps, GitLab CI/CD, Jenkins, Grafana, Prometheus, ArgoCD, Nodejs, Flask, Mongodb, Pandas, Numpy, Tensorflow/Keras

OTHER EXPERIENCES

- Qualifier of the final round of ICPC Dhaka Regional Contest, 2019