SAAD NADEEM

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Aspiring Full-Stack Developer with Experience in DevOps and Cloud Technologies.

SUMMARY

Computer Science graduate with strong foundations in OOP and DSA, experienced in building full-stack web applications using the MERN stack. Led the development of **NeuroAssess**, an AI-driven platform using NLP to support neurodivergent students. Proficient in taking applications from code to cloud using DevOps workflows and scalable AWS infrastructure. Familiar with AI-assisted development and automation using tools like Cursor AI, n8n, and GenAI.

EDUCATION

FAST National University of Computer and Emerging Sciences   *Sep 2021 – Jun 2025*
Bachelor of Science in Computer Science

TECHNICAL SKILLS

Languages: JavaScript, Python, C++, SQL, HTML, CSS

Databases: MongoDB (NoSQL), Oracle SQL (Relational)

Developer Tools: Git, GitHub, Docker, GitHub Actions, VS Code, Eclipse, Postman, Google Colab, Cursor AI

Frameworks & Libraries: MERN Stack (MongoDB, Express.js, React.js, Node.js), FastAPI, Tailwind CSS, Material UI, Pandas

Cloud & DevOps: AWS (EC2), Terraform (IaC), Kubernetes, Argo CD, Helm, Jenkins, CI/CD Pipelines, Docker-based Deployments

AI Tools & Integrations: n8n, Cursor AI, Custom Vision (Hugging Face), RAG, OpenAI Whisper, RESTful APIs

PROJECTS

NeuroAssess - AI-Assisted Support for Neurodivergent Students (FYP)| *MERN, Github, DevOps, AWS*

- Co-developed and deployed an AI-powered MERN stack platform to support neurodivergent students, featuring an interactive React.js frontend and a scalable Node.js backend with MongoDB, ensuring efficient data flow.
- Integrated custom-trained AI handwriting recognition model (deployed via Hugging Face) to detect **dyslexia** and **dysgraphia**, automating detailed reports for users and psychiatrists to support personalized learning.
- Containerized the app with Docker and automated **AWS EC2** deployments using GitHub Actions CI/CD pipelines.

Containerized Web Application with CI/CD Automation | *Docker, GitHub Actions, Bash*

- Designed and containerized a web application (Frontend, Backend, Database) using **Docker Compose** with hot reloading and optimized multi-stage builds for security and performance.
- Automated server monitoring and recovery using Bash scripts and systemd service configuration.
- Built a CI/CD pipeline with GitHub Actions for automated testing, security checks, and DockerHub deployment.

Advanced Kubernetes Deployment with GitOps, Helm & Service Mesh| *Kubernetes, Helm, GitOps*

- Designed and deployed a multi-service containerized web application on **Kubernetes** with environment-specific ConfigMaps, Secrets, health probes, and resource limits across dev and prod clusters.
- Packaged and templatized Kubernetes manifests using Helm for scalable, environment-specific deployments.
- Implemented **GitOps** with **Argo CD** to automate continuous delivery with real-time Git sync and rollback support.

Automating Web Project Deployments with Terraform (IaC) and GitOps Practices (Ongoing Project)

- Provisioning reusable AWS infrastructure (EKS, VPCs, ALB) via Terraform for consistent, one-command deployments.
- Integrating Grafana with Prometheus for real-time monitoring of latency, error rates, and request throughput.
- Reducing manual setup time and enhancing deployment reliability and visibility through GitOps-driven automation.

Phishing Email Detection System | *Machine Learning, Python, Scikit-learn*

- Developed an ML-based email classification system using Python, FastAPI, and Scikit-learn, leveraging TF-IDF to detect phishing emails with enhanced accuracy and security.

Social Media Sentiment Analysis | *Python, Transformers, Apify, Seaborn*

- Analyzed Facebook and Instagram comments on a fashion product using cardiffnlp/twitter-roberta-base-sentiment, identifying key sentiment drivers and visualizing trends to extract actionable customer insights..

CERTIFICATIONS

- **Introductions to DevOps** | *IBM (Coursera)*
- **Git: Become an Expert in Git & GitHub** | *Udemy*
- **Google Prompting Essentials Specialization** | Coursera
- **Google AI Essentials Specialization** | Coursera