SILLAH BABAR

Email: sillahbabar12@gmail.com — LinkedIn: https://www.linkedin.com/in/sillah-babar/
— GitHub: https://github.com/Sillah-Babar Contact: +358 0449505421

PROFESSIONAL SUMMARY

DevOps Engineer with 3 years of experience building scalable infrastructure, MLOps pipelines, and CI/CD workflows. Proven track record of deploying production systems on AWS, GCP, and Kubernetes while collaborating with cross-functional teams. Experienced in , container orchestration, and monitoring solutions. Passionate about sustainability and leveraging technology for environmental impact.

EDUCATION

Masters in Computer Science and Engineering, University of Oulu, Finland   2025 - present
Currently enrolled in the program with AI major.
Bachelor of Computer Science, CGPA-3.6, FAST NUCES   2019 - 2023
Appeared in Rector's List for 4.0 GPA and received a Gold medal.
Relevant Coursework: Data Structures, Database Systems, Cloud Computing, Algorithms, Machine Learning, Deep Learning, MLOps
A-Levels Beacon House Margalla Campus   2018-2019
Scored 3A's, Gold Medal

SKILLS

Cloud & Infrastructure	AWS (EC2, ECS, Code Pipeline, Elastic Beanstalk), GCP (Cloud Run, VM), Kubernetes
DevOps & CI/CD	Jenkins, Docker, Terraform (IaC), CI/CD Pipelines, Git
Orchestration & Monitoring	Kubernetes, Kestra, Grafana, Pub/Sub
MLOps	DVC, MLflow, Model Deployment, Data Versioning, Pipeline Orchestration
Programming	Python, C++, SQL (Postgres, MySQL, BigQuery)
Soft Skills	Team Player, Strong Communication, Problem-solving, Adaptable, Fast Learner

EXPERIENCE

Machine Learning Engineer / Data Engineer   Jan 2024 – Present
CIVIC IQ   *Remote, USA*

- Deployed Kestra as a pipeline orchestrator on Kubernetes cluster, configuring fault-tolerant data extraction jobs on pre-emptible pods with Pub/Sub integration for asynchronous messaging.
- Built and maintained scalable AI/ML pipelines for production deployment of models processing 148M+ rows of structured data.
- Integrated CI/CD workflows with Grafana dashboards for real-time monitoring, alerting, and system reliability tracking.
- Developed automated sync pipelines and data validation workflows ensuring data integrity across distributed systems.
- Implemented Infrastructure as Code practices for reproducible deployment environments using Docker and Kubernetes.
- Created automated deployment workflows integrating seamlessly with third-party platforms (HubSpot).
- Designed and maintained scalable data processing infrastructure handling high-volume workloads.

Machine Learning Engineer   July 2023 - Jan 2025
Maanz AI   *Onsite, Islamabad*

- Led AWS cloud migration project: Set up Kubernetes clusters, configured Job DSLs, seed jobs, and Jenkins for 120+ Scala and C++ pipelines serving production ML systems.
- Designed and implemented CI/CD pipelines using Jenkins and Docker for continuous integration and deployment of ML models and applications.
- Maintained and optimized post-processing pipelines in Python for real-time data processing supporting autonomous driving systems.
- Developed internal monitoring and performance tracking tools for evaluating system reliability and model performance at scale.
- Collaborated with cross-functional teams (200+ members) to streamline ML workflows and improve deployment efficiency.

AI Software Developer   January 2024 - May 2024
Hais.ai   *Part-time Contract, Switzerland (Remote)*

- Deployed AI applications using FastAPI to GCP Cloud Run and VM instances with containerized Docker workflows.

- Implemented MLOps practices: data versioning with DVC, experiment tracking with MLflow, and automated model deployment pipelines.
- Created comprehensive CI/CD pipelines using Docker and Jenkins for automated testing and production deployment.
- Managed cloud infrastructure on GCP and AWS ensuring high availability and scalability of AI services.

Data Science Intern   Jan 2023 - June 2023
Foretheta   *Remote, US based*

- Implemented MLOps workflows using DVC for data versioning and created end-to-end CI/CD pipelines.
- Deployed Flask applications to AWS EC2 and Elastic Beanstalk using AWS Code Pipeline for automated deployment.
- Configured and maintained cloud infrastructure on AWS for production ML applications.

PROJECTS

Kubernetes-based ML Pipeline Orchestration Designed and deployed fault-tolerant ML pipeline orchestration system on Kubernetes with automated monitoring, alerting, and scaling capabilities. Integrated Pub/Sub messaging and implemented IaC practices for reproducible deployments.

Multi-Cloud CI/CD Infrastructure Built comprehensive CI/CD infrastructure spanning AWS and GCP, managing 120+ automated pipelines with Jenkins. Implemented monitoring dashboards using Grafana for real-time system health tracking.

Scalable Data Processing Pipeline Developed production-grade data processing pipeline handling 148M+ rows using Kubernetes, Docker, and cloud-native tools. Implemented automated data validation and sync mechanisms.

LICENSES AND CERTIFICATIONS:

Udemy: Machine Learning A-Z™: AI, Python & R + ChatGPT Bonus [2023]

Udemy: Transformers in Computer Vision

Udemy: Generative AI: Unleashing Next-Gen AI

IELTS- Band 8

ADDITIONAL INFORMATION:

Comfortable working within CET (±3 hours) timezone (Currently based in Finland, CET+1)

Strong technical writing skills - Writing Tech Articles on Medium (https://medium.com/@sillahbabar12)

Proven ability to learn new technologies quickly and adapt to diverse tech stacks

Experience using LLM tools for productivity enhancement