

Mohammed Khubaib

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Education

Florida International University (FIU) <i>Master of Science in Computer Science</i>	Aug 2025 – May 2027
Osmania University <i>Bachelor of Engineering in Computer Science and Engineering</i>	August 2020 - June 2024 CGPA : 3.68
<ul style="list-style-type: none">Coursework: Data Structures & Algorithms, Design and Analysis of Algorithms, Operating Systems, Database Management Systems, Computer Networks, Distributed Systems, Artificial Intelligence, Machine Learning, Deep Learning	

Experience

OuSpark , (website) (Documentation)	Oct 2024 – present
Cross Platform Application Developer Data Engineer Site Reliability Engineer	
<ul style="list-style-type: none">Engineered ETL pipelines to ingest, clean, and transform 20,000+ academic records, enabling automated reporting.Optimized PostgreSQL schemas and tuned SQL queries to improve analytics dashboard performance, cutting query latency by 30%.Developed automation scripts in Bash & APIs in Golang to streamline workflows, improving reliability & reducing manual operations.Containerized Golang services with Docker and applied multi-stage builds to optimize image size and deployment efficiency.Developed a cross-platform application with Flutter, providing students with results analytics tools, and personalized dashboards.Achieved 5,000+ downloads and scaled the platform to process and manage 20,000+ academic results through automated data analytics pipelines and workflows.	Aug 2023 – July 2024
Google Developer Students Club, (GDSC MCET)	
Lead : Cloud and DevOps Core Team	
<ul style="list-style-type: none">Led the Cloud & DevOps team, driving adoption of Google Cloud technologies & mentoring 100+ students through workshops.Architected and deployed solutions using Google Cloud Platform (GCP) services, including Compute Engine, Cloud Run, Cloud Functions, Cloud Storage, Cloud Build, Artifact Registry, and Google Kubernetes Engine (GKE).Automated infrastructure provisioning and management with Terraform, streamlining cloud resource deployment and configurationDelivered interactive dashboards and scalable cloud-native applications, integrating CI/CD pipelines and containerized workloads for reliability and efficiency.	

Projects

Cloud-Native Task Manager Application (Documentation)	
<ul style="list-style-type: none">Implemented a cloud-native, Task Manager with FastAPI backend and PostgreSQL database, incorporating DevOps practices.Produced streamlined DevOps pipelines by automating CI/CD with GitHub Actions, containerizing services with Docker and Docker Compose, and deploying SHA-tagged images to DockerHub and GitHub Container Registry (GHCR).Orchestrated scalable deployments on Kubernetes with Helm; integrated CI/CD pipelines for resilience; implemented GitOps (ArgoCD) for automated rollbacks and recovery.Deployed and managed infrastructure on AWS using Terraform and Docker, orchestrating services with Kubernetes.Technologies: Python, UV, FastAPI, Streamlit, PostgreSQL, Docker, Kubernetes, Helm, GitOps (ArgoCD), GitHub Actions.	
DeepResNet (GitHub Repo)	
<ul style="list-style-type: none">Researched deep learning approaches to classify respiratory diseases from auscultation audio, aiming at automated diagnosis.Engineered data pipelines with Airflow to ingest, clean, and transform raw auscultation audio into structured spectrogram datasets.Designed deep learning classifiers, tracked experiments with MLflow, and deployed the classifiers via BentoML with a FastAPI layer for secure REST API access; implemented user verification with PostgreSQL storing encrypted API keys.Built an interactive User Interface for end users to interact with the Deep Learning Model.Technologies: TensorFlow, Keras, NumPy, Pandas, BentoML, FastAPI, Pydantic, Streamlit, PostgreSQL, Docker, Docker Compose.	

Skills

Data Engineering & ETL: Apache Airflow, Apache Kafka, Apache Flink, Kestra, Apache Spark, Apache Hadoop, Prefect
DevOps & MLOps: Linux, Docker, Kubernetes, Helm, IaC(Terraform, Ansible), Nginx, GitHub Actions, Jenkins, GitOps (ArgoCD), Prometheus, Grafana, MLflow, BentoML
Cloud Platforms: Google Cloud (Compute Engine, Cloud Run, Cloud Functions, Cloud Storage, BigQuery, Pub/Sub, Vertex AI, GKE, Cloud Build, Artifact Registry), AWS (EC2, Lambda, S3, ECR, EKS, CodeBuild/CodePipeline), OpenStack
Programming & Databases: Python, Dart, Golang, Shell Scripting, SQL (Postgres, MySQL, SQLite), SQLAlchemy, MongoDB, Redis, GraphQL
Frameworks & Tools: Flutter, FastAPI, Pydantic, Pandas, NumPy, TensorFlow, Keras, Scikit-learn, SciPy, UV, Streamlit, MkDocs, Tableau, Microsoft (Power BI, Excel), Git, Postman, Supabase, Astronomer, Upstash, Figma, Rive