

Saaim Abdullah

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EDUCATION

COMSATS University Islamabad, Lahore Campus

Lahore, Pakistan

Bachelor of Science in Computer Engineering

2021 – 2025

- Relevant Coursework: Data Structures, Database Management Systems, Computer Networks, Operating Systems, Software Engineering, Computer Architecture, Machine Learning

EXPERIENCE

Expertflow (Cisco UCCE Solution Partner)

Lahore, Pakistan

Software Engineer

June 2024 – Feb 2026

- Architected and delivered full-stack features using Angular and Node.js while designing data ingestion layers, enabling seamless UI-driven workflows backed by scalable backend services.
- Designed and implemented ETL pipelines using Python, AWS Lambda, and S3, transforming raw event data into structured datasets for downstream analytics and reporting.
- Engineered RESTful APIs using Node.js and Express integrated with data pipelines, reducing API latency by 40% and improving data delivery consistency.
- Built real-time data streaming and communication layers (WebRTC, Node.js), enabling low-latency interactions and event-driven processing across distributed systems.
- Optimized database performance using indexing, query tuning, and aggregation (MongoDB, SQL), improving data retrieval speed by 35%.
- Designed and deployed scalable data infrastructure on AWS (EC2, S3, IAM, VPC), ensuring high availability and secure data access.
- Implemented data warehousing workflows integrating Snowflake and ETL orchestration (Airflow), enabling efficient batch processing and analytical querying.
- Collaborated across frontend, backend, and data teams to align system architecture, ensuring reliable data flow from ingestion to visualization layers.

PROJECTS

Garage Management System (Full Stack + Data Pipeline) | Django, React, AWS, MongoDB, S3

Freelance 2026

- Architected a full-stack inventory system with integrated data pipelines for real-time tracking and analytics of inventory operations.
- Engineered backend services with Django and designed REST APIs to support frontend data visualization and reporting.
- Built ETL workflows to process and store transactional data in MongoDB, enabling efficient querying and operational insights.
- Optimized database performance using indexing and aggregation, improving query execution time by 50%.
- Deployed scalable infrastructure using AWS EC2 and S3 with frontend hosting on Vercel, ensuring reliability and performance.
- [Live Project Link](#)

Autoencoder-Based Secure Encoding for Edge Devices (ML + Data Pipeline) | Python, TensorFlow, Flask, AWS

Final Year Project

- Engineered an autoencoder-based TensorFlow model to compress IoT data, reducing payload size for efficient transmission across edge networks.
- Designed a real-time inference pipeline using Flask APIs and AWS EC2 to process streaming sensor data.
- Built secure data pipelines using AWS S3 for storage and retrieval of encoded data across distributed systems.
- Integrated preprocessing and transformation workflows to standardize sensor data before model inference.
- [Project Repository](#)

TECHNICAL SKILLS

Languages: Python, JavaScript, TypeScript, SQL, Java

Frontend: React, Angular, HTML, CSS

Backend: Node.js, Express.js, Django, Flask

Data Engineering: ETL Pipelines, Apache Kafka, Apache Spark, Airflow, Data Modeling, Data Warehousing, Snowflake

Databases: MongoDB, MySQL, Firebase

Cloud & Infrastructure: AWS (EC2, S3, IAM, VPC, RDS, DynamoDB, CloudWatch, Amazon Redshift), Digital Ocean

DevOps & Tools: Docker, CI/CD, Git, GitLab, Postman, VS Code, PyCharm, JIRA

CERTIFICATIONS

- AWS Cloud Technical Essentials (Mar 2026)
- Getting Started with Git and GitHub (Feb 2026)
- Introduction to Data Engineering (Feb 2026)