

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, Computer Network, Operating Systems, Software Engineering, Computer Architecture, Machine Learning

Experience

Expertflow (Cisco UCCE Solution Partner)

Lahore, Pakistan

Software Engineer

Sep 2024 – Present

- Designed and implemented an event-driven ETL pipeline using AWS Lambda and S3, automating data ingestion and enabling structured data delivery for analytics and ML workflows.
- Developed data transformation pipelines to standardize raw data, enhancing data quality and usability across different systems.
- Created a real-time communication SDK for voice, chat, and video calls, enabling seamless interactions between customers and agents, improving customer service and operational efficiency.
- Introduced a chatbot system, reducing response times and automating client interactions, leading to a more efficient customer service process.
- Deployed scalable backend services on AWS EC2, using Docker containers for service isolation, and managing IAM, VPC, and S3 integrations for secure and scalable services.
- Built RESTful APIs for seamless integration between frontend, SDK, and third-party platforms, streamlining communication.
- Enhanced platform security by implementing time-bound access control and providing SQL-based analytics for actionable insights.
- Collaborated cross-functionally with frontend (Angular), backend, and SDK teams to deliver end-to-end product features and functionalities.

Nimis Tech

Lahore, Pakistan

Software Engineer Intern

June 2024 – Aug 2024

- Worked with a startup team to build scalable applications using React and Node.js.
- Contributed to improving the UI/UX experience by optimizing performance and integrating REST APIs.

Projects

Garage Inventory Management System | Django, React, AWS EC2, MongoDB, S3, Vercel

2025

- Developed a full-stack inventory management system for real-time tracking and management of garage operations.
- Implemented role-based access and JWT authentication for different user roles (admin/staff/customer).
- Optimized MongoDB queries using indexing, improving query response time and performance.
- Deployed the entire system using AWS EC2, S3, and Vercel for scalable architecture.
- Garage Inventory Management System Project Link (Denmark project)

Autoencoder-Based Encryption Model for Edge Devices | Python, TensorFlow, Flask, AWS EC2, S3

2024

- Developed an autoencoder model to compress and securely transmit sensor data from edge devices.
- Built preprocessing and training pipelines in Python and TensorFlow.
- Deployed the Flask API on AWS EC2, integrating with S3 for secure data handling and storage.

Technical Skills

Languages: Python, JavaScript, TypeScript, SQL, Java

Frameworks: Node.js, Express.js, Angular, React, Flask, Django

Databases: MongoDB, MySQL, Firebase

Cloud: AWS (EC2, S3, IAM, VPC, CloudWatch, RDS, MWAA, DynamoDB), Digital Ocean

DevOps & Tools: Docker (CI/CD), Git, Gitlab, VS Code, PyCharm, Postman, JIRA

Data Engineering: Apache Kafka, Hadoop, Spark, Airflow, Data Warehousing, ETL Pipelines, SQL, NoSQL, Data Modeling, Data Quality Assurance, Data Integration

Certifications

AWS Cloud Technical Essentials, Coursera (Mar 2026)

Getting Started with Git and GitHub, Coursera (Feb 2026)

Introduction to Data Engineering, Coursera (Feb 2026)