

Tanmay Gupta

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Experienced Software Engineer with **over 3 years of professional expertise** in **Python** back-end development, **AWS** and automation. Proven leadership in developing **efficient data pipelines** and automation processes, **reducing manual work and enhancing workflow efficiency**. Skilled in web scraping, **data analysis**, and functional programming, significantly improving project delivery.

SKILLS

**Python | AWS | Data Structures & Algorithms | Docker - Kubernetes - Amazon EKS
SQS - RabbitMQ - Kafka | System Design | DynamoDB - SQL | Django | Pandas | Automation**

EXPERIENCE

Software Engineer

Dec 2021 – Present

ACCENTURE

Gurugram, Haryana

- **Led the backend development and deployment team**, focusing on building **robust, scalable systems using Python**, Django, AWS SDK (boto3), and CloudFormation, demonstrating deep **expertise in backend development and cloud technologies**.
- **Architected and developed a custom data pipeline** for detecting low call quality using MOS scores from **Kinesis streams**, processing data through **Lambda and AWS SQS**, significantly enhancing data reliability and system performance.
- Conducted in-depth **backend data analysis and visualization** using Pandas, optimizing customer interaction processes and **reducing average resolution time by 15 minutes per interaction**, enhancing overall customer satisfaction.
- Worked on **data integration solutions** using Amazon Connect, Lambda functions, **SQS, and Kafka**, achieving a **1.5x increase in data retrieval speed and reducing latency by 150 milliseconds**.
- Played a crucial role in **developing and optimizing an Azure DevOps (ADO) pipeline**, leading to faster project delivery times and fewer deployment failures, underscoring strong **backend and DevOps capabilities**.
- Developed and implemented **dynamic JSON schemas** for Amazon Connect, improving **data flexibility, system adaptability, and reducing data mapping errors**, showcasing proficiency in backend data handling and system design.

Technology Associate

Oct 2020 – Dec 2021

AVIZVA Solutions Pvt. Ltd.

Gurugram, Haryana

- Led a team in developing **NLP-based conversational AI products**, showcasing expertise in functional programming and problem-solving.
- Worked on **RASA engine server**, connecting it as an independent component in our **Django application** to serve as its **NLP core**.
- **Integrated NLP-NLU systems like Amazon Lex, Connect, and Alexa** into customer support platforms, improving data processing accuracy and reducing misinterpretation instances by dozens of cases each month.
- Enhanced data processing efficiency by developing and implementing an **automated Java Spring-boot project setup system**, leveraging skills in **automation and functional programming**, cutting setup time by several hours per project and minimizing setup-related errors.

PROFESSIONAL CERTIFICATION

Amazon Web Services Training and Certification

AWS

AWS Certified Cloud Practitioner (CLF-C01)

Dec 2022 – Dec 2025

Demonstrates fundamental understanding of IT services in the AWS Cloud, showcasing fluency in cloud technologies and foundational AWS knowledge. Proficient in identifying and implementing essential AWS services for project setup and execution.

EDUCATION

Jamia Millia Islamia University

New Delhi, India

Bachelor of Technology, Computer Engineering

Aug 2016 – Sept 2020

Graduated with First Division, represented the University in the prestigious **ICPC Asia Region Contest, 2018**