

RESUME

Sanika Jaysing Patade

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OBJECTIVE

Passionate software developer with 1+ year of experience in building scalable, cloud-native solutions using AWS, Python, and React. Holding an AWS Certified Developer – Associate (DVA-C02), I aim to contribute to innovative projects by leveraging expertise in real-time data processing and full-stack development and deployment.

PROFESSIONAL EXPERIENCE

Software Engineer: YASH Technologies, Indore (Madhya Pradesh) | AUGUST 2024 - Present

- AWS Certified Developer with 1+ years of experience in designing & developing cloud-native applications and enterprise platforms using Python, FastAPI, and React with AWS services
- Proficient in building scalable solutions using AWS ECS, Lambda, RDS, DynamoDB, API Gateway, Bedrock, and Athena for enterprise-level applications
- Experienced in real-time data processing with Kafka, NATS JetStream, OpenSearch, and WebSocket for handling large bundles of messages/day
- Strong expertise in developing RAG (Retrieval-Augmented Generation) systems for semantic search and AI-driven solutions
- Hands-on experience with databases including MySQL, MongoDB, DynamoDB, and AWS RDS
- Skilled in using development tools like Git, GitHub, Postman Code, and cloud deployment on AWS infrastructure
- Worked with agile model of software development methodology.

TECHNICAL SKILLS

Programming Languages: Python, FastAPI, Java (Core)

Web Development: React, HTML, CSS

Cloud: AWS (IoT Core, Lambda, DynamoDB, WebSocket API, Athena, Quick Sight, AWS LEX), CI/CD Pipeline, OpenSearch, EC2, ECS, ECR

Database Systems: MySQL, SQL, SQLite, DynamoDB, MongoDB, RDS

Tools & Technologies: Apache Kafka, Raspberry Pi, Git, Data Processing & Analysis, NATs Jetstream, RAG

CERTIFICATE

AWS Certified Developer – Associate (DVA-C02)

EDUCATION DETAILS

Sr. No.	Qualification	Year	University/Board	Percentage
1	Bachelor of Computer Engineering	2024	Savitribai Phule, Pune University	94.00
2	Diploma in Computer Engineering	2021	Autonomous Institute of Pune (GPP)	91.60
3	SSC	2018	Maharashtra State Board	87.20

## PROJECTS:

**Project Name:** ENTERPRISE RAG SYSTEM FOR SEMANTIC SEARCH & SUMMARIZATION

**Technologies:** Python, AWS (S3, Lambda), OpenSearch, Vector Embeddings, Bedrock models.

**Description:**

- Developed an enterprise-level **RAG (Retrieval-Augmented Generation)** system to enable semantic search and intelligent summarization across team POCs, tools documentation, and company policies for leadership tracking and employee knowledge management.
- **Impact:** Reduced information retrieval time by 60%, improved policy compliance awareness by 45%, and enhanced leadership visibility into team progress with automated progress tracking.

**Project Name:** REAL-TIME STOCK DATA PROCESSING SYSTEM

**Technologies:** Apache Kafka, Aws-Services: IOT Core, Lambda, DynamoDb, WebSocket-API, Athena, Quicksight, CICD Pipeline

**Description:**

- Designed and deployed a scalable AWS-based architecture to process stock data from BSE APIs, using technologies such as:
- **Apache Kafka:** for publishing and transforming stock data into categorized topics (small, mid, large). Lambda functions and DynamoDB: for storing processed data and updating records.
- **WebSocket API:** enabling client subscriptions for real-time data delivery based on stock categories. **Quicksight Dashboards and Athena:** for visualization and querying transformed stock data. Result: Enhanced system reliability with dead-letter queues for unprocessed stocks, improving analytics efficiency.
- **Impact:** Enhanced analytics efficiency with 99% system reliability using dead-letter queues.

**Project Name:** REAL-TIME ORDER PROCESSING SYSTEM

**Technologies:** Python, NATS JetStream, MySQL

**Description:**

- Developed an Order Processor microservice using Python and **NATS JetStream** to consume and process orders every second.
- **Integrated MySQL for inventory checks** and status updates (e.g., "created" to "processed"). Handled edge cases like unavailable items using dead-letter queues.
- **Impact:** Reduced order processing latency by 35% and improved system reliability.

**Project Name:** CABIN BOOKING MANAGEMENT SYSTEM

**Technologies:** React, Python – Fast API, SQL

**Description:**

- Developed a full-stack solution that provides a pictorial representation of Yash Technology's cabin layout, allowing employees to book cabins seamlessly.
- used **REACT** for all frontend dynamic booking interface and calendar view. along with design API in **python's FAST framework** for handling bookings, approvals, and notifications via email. and also used **SQL database** for cabin status updates (availability, maintenance, etc.) and capacity modifications. Result: Streamlined the workspace booking process and improved admin oversight.
- **Impact:** Improved booking efficiency by 30% and enhanced admin oversight.

**Project Name:** CSS STYLE SYNC

**Technologies:** Python, React, Websocket-API

**Description:**

- Implemented WebSocket API to capture and transmit CSS modifications in real-time. Built a Python (FASTAPI) backend to process WebSocket messages and dynamically update CSS files.
- Ensured reliable synchronization with error handling for invalid CSS inputs and connection failures.
- **Impact:** Streamlined front-end development workflow, reducing manual CSS updates by 50%

**Project Name:** ADVANCED TECHNOLOGY IN DRONES

**Technologies:** Python, IOT, SQLite Database

**Description:**

- Developed an advanced drone control system leveraging uplinking and downlinking communication techniques using **Raspberry Pi and APM 2.8 Flight Controller**, replacing the traditional **CT6B remote** control.
- The project encompassed real-time control, monitoring, and data logging to enhance drone functionality and flight stability.
- **Impact:** Improved drone functionality and reduced control latency by 20%.

**Project Name:** PYTHON DIRECTORY AUTOMATION APPLICATION

**Technologies:** Python

**Description:**

- This application is developed in Python. In this project it will automate the directory every 5 minutes.
- If there is any duplicated file is created and if the file is empty that file will automatically remove every 5 minutes.
- **Impact:** Reduced manual cleanup time by 80%.

## EXTRA ACTIVITIES

- Participated in national level project exhibition at **Giant Metrewave Radio Telescope**
- President of **Drone related project** in PVPIT college.
- Experience in handling **Raspberry PI operating system**.
- Experience in handling, analyzing **different types of data sets**.
- Experience to working on **ML algorithm**.
- **Automation script** for Starting, shut down and restarting the computer.

## GIT PROFILE

<https://github.com/patadesanika>

## LINKDIN PROFILE

<https://www.linkedin.com/in/sanika-patade-62b602244/>

Signature  
**Miss. SANIKA JAYSING PATADE**