RESUME

Sanika Jaysing Patade

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OBJECTIVE

Passionate software developer with **1.5+ 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 event driven architecture and full-stack development and deployment.

PROFESSIONAL EXPERIENCE

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

- AWS Certified Developer with **1.5+ years of experience** in designing & developing cloud-native applications and enterprise platforms using Python, FastAPI, RAG 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 using framework like Lang chain.
- 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, GitHub, Grafana, NATs Jetstream, RAG, Langchain

CERTIFICATE AND EDUCATION DETAIL

AWS Certified Developer – Associate (DVA-C02)

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

PROFESSONAL PROJECTS:

Project Name: ENTERPRISE LICENSE PROVISIONING SYSTEM
Technologies: Python, PyArmor -CI license, CICD workflows, AWS
Description:

- Designed and implemented a license system for agents pipeline in Python, integrating organization and plan selection (Starter, Growth, Enterprise) with agent allocation, cloud provider/region configuration, and validity periods. Ensure license expiry at selected time. Embedded license metadata with agent repositories, applied PyArmor-based obfuscation for secure delivery, and automated client deployment workflows using CI/CD pipelines.
- **Impact:** Streamlined license provisioning process and enhanced security with automated deployment workflows

Project Name: ENTERPRISE RAG SYSTEM FOR SEMANTIC SEARCH & SUMMARIZATION
Technologies: Python (LANGCHAIN), AWS (S3, Lambda), OpenSearch, Vector Embeddings, Bedrock model.
Description:

- Built an intelligent Retrieval-Augmented Generation system enabling employees to ask questions and retrieve accurate information from company knowledge base using advanced NLP and vector search capabilities.
- **Impact:** Reduced employee time to find policy information by 80% and improved knowledge accessibility with instant Q&A capabilities

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.

PERSONAL PROJECTS:

Project Name: CSS STYLE SYNC
Technologies: Python, React, WebSocket
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%.

LINKDIN PROFILE

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Signature
Miss. SANIKA JAYSING PATADE