SHUBHAM KUMAR

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AWS Cloud Solution Architect

SUMMARY

AWS Solutions Architect with a deep expertise in designing and implementing cloud-native architectures. Skilled in EC2, S3, IAM, Lambda, and CloudWatch, delivering scalable, secure, and high-performance solutions. Adept at leveraging automation and infrastructure-as-code to optimize cloud environments. Proficient in Python and Machine Learning, with a passion for integrating AI-driven solutions into cloud architectures. Known for innovative problem-solving, clear communication, and a keen ability to drive DevOps best practices and cloud security.

TECHNICAL SKILLS

- **Cloud Computing:** Amazon Web Services (AWS): EC2, S3, IAM, VPC, Lambda, RDS, DynamoDB, Route53, CloudFront, API Gateway, SNS, SQS, SES, CloudWatch, CloudTrail, EventBridge, Systems Manager,
- **Infrastructure as Code (IaC):** Terraform, AWS CloudFormation, Ansible
- **CI/CD & DevOps Tools:** Git, GitHub, Jenkins, AWS CodePipeline, Helm, Kubernetes (EKS)
- **Networking & Security:** Amazon VPC, Subnets, NAT Gateway, Route Tables, Security Groups, NACLs, VPN, AWS WAF, AWS Shield
- **Monitoring & Observability:** AWS CloudWatch, CloudTrail, Prometheus, Grafana
- **System & Server Administration:** Linux (Ubuntu, Amazon Linux, RHEL), Windows Server, Shell Scripting, CRON Jobs, SSH
- **Programming & Scripting:** Python, Bash, SQL, YAML, JSON
- **Cloud SDK & Dev Tools:** AWS CLI, Boto3, VS Code, Postman
- **Containerization & IaC:** Docker, Kubernetes, Helm, Terraform
- **Data & ML (Basic):** Pandas, NumPy, Scikit-learn, OpenCV, YOLO

EXPERIENCE / TRAINING

Cloud Solutions Intern (AWS)   Jan 2025 - Present

APTRON · Gurugram

- Built and maintained AWS architectures using EC2, S3, RDS, VPC, IAM, and Lambda.
- Automated infrastructure with Terraform and managed containerized deployments using Kubernetes (EKS).
- Developed CI/CD pipelines with Git and Jenkins to streamline deployments.
- Automated server configuration and environment setups using Ansible.
- Set up centralized monitoring and logging with CloudWatch and CloudTrail.

Data Science Trainee   Jun 2024 - July 2024

Naresh i Technologies · Hyderabad

- Gained hands-on experience in building ML models using Scikit-learn, Pandas, and NumPy.
- Worked on data preprocessing, feature engineering, and model evaluation techniques.
- Applied NLP methods for sentiment analysis and text classification tasks.
- Implemented object detection using OpenCV and YOLO frameworks.
- Understood and executed end-to-end data science workflows from raw data to insights.

Python Developer Trainee   Jun 2023 - July 2023

O7 Services IT Company · Jalandhar

- Developed GUI applications using Tkinter for user interaction and control.
- Utilized OpenCV to extract and process frames from video streams.
- Implemented logic to save selected images based on user-defined conditions.
- Applied core Python concepts like file handling and OOP in project workflows.
- Practiced version control and collaboration using Git and GitHub.

PROJECT WORK

Automated Mailing Workflow with SQS

AWS S3 | Lambda | SQS | SES | DynamoDB

- Used S3 to upload CSVs, triggering Lambda to extract emails and send them to SQS for batch processing.
- Another Lambda function consumed SQS messages in batches of 5, sending emails via SES with 3 retry attempts.
- Failed emails were logged into DynamoDB through a Dead Letter Queue for future analysis.
- Improved email delivery reliability by 40% through automated retries and error tracking.
- Reduced manual email-sending workload by 80%, streamlining operations and scalability.

Voice-Enabled Contact Center Automation

Amazon Connect | Lex | Polly | Lambda | S3 | CloudWatch

- Designed a serverless, cloud-based IVR system using Amazon Connect and Amazon Lex to automate customer interactions.
- Integrated Amazon Polly for real-time text-to-speech and AWS Lambda for backend logic during call flows.
- Reduced manual query handling by 50% through intelligent voice automation.
- Enabled 24/7 customer support with scalable infrastructure and minimal operational cost.
- Enhanced user experience with faster, human-like responses and seamless call routing.

EDUCATION

Bachelor of Technology (B.Tech) in Computer Science

Sardar Beant Singh State University, Punjab

Percentage : 84%

12th Non-Medical

Sainik School Kapurthala, Punjab

CERTIFICATION

- AWS Cloud Practitioner Essential – Simplilearn
- AWS Certified Solutions Architect – Associate (consider completing soon)
- Python for Data Science – CognitiveClass

ADDITIONAL INFORMATION

Achievements:

- Runner-Up – TECHNOXIAN World Robotics Championship 2022 (Water Rocket)
- Finalist – Smart India Hackathon 2023