

ASMITA SURUCHI

Cloud & Data Engineer | Python • AWS • Data Engineering

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PROFESSIONAL SUMMARY:

- 7+ years of experience designing Python backend applications, cloud-native solutions, and enterprise data processing systems across banking and insurance domains.
- Hands-on experience with AWS serverless services, ETL pipelines, data engineering, and provisioning cloud infrastructure using Terraform
- Developed scalable applications using Django, Django REST Framework, REST APIs, and Next.js.
- Experience in data analytics, ML, ETL workflows, and Python automation using Pandas and scikit-learn.
- Built and supported production applications with a focus on reliability, maintainability, and business impact.

TECHNICAL SKILLS

Programming Languages

Python, SQL, JavaScript, HTML5, CSS3, Shell Scripting, VBA, VBScript

Backend & API Development

Django, Django REST Framework, REST APIs

Cloud & DevOps

AWS (Lambda, S3, Glue, EMR, Redshift, Step Functions, EventBridge, IAM, RDS), Terraform, Docker, Git

Data Engineering & Analytics

ETL Pipelines, Data Processing, SQL Server, Pandas, NumPy, Data Analysis, Reporting

Machine Learning & AI

Scikit-learn, Predictive Modeling, Recommendation Systems, Data Classification

Tools & Methodologies

GitHub, Agile, Scrum, JIRA, Confluence

PROFESSIONAL EXPERIENCE:

Infosys Ltd. | Consultant | February 2026 – Current

- Reduce report generation time from **approximately 1 hour to 5–8 minutes** by automating a manual batch workflow with an event-driven AWS Lambda solution, enabling reports to be generated as each record is processed instead of waiting for the entire batch to complete.
- Develop Python-based automation utilities to extract, process, and generate customized on-demand reports for business users.
- Investigate and troubleshoot production issues by validating report outputs, database records, AWS Lambda execution logs, and Amazon S3 files to ensure data accuracy and process reliability.
- Manage source code using Git, support release and deployment activities, and synchronize application changes across development environments.
- Collaborate with business stakeholders and technical teams to translate functional requirements into scalable software solutions and deliver production-ready implementations.

H1B Assignment (United States) | Senior Consultant | February 2023 – May 2023

- Completed an H1B-sponsored on-site assignment in the U.S., contributing to Python backend and cloud engineering projects through May 2023.
- Provisioned and deployed AWS cloud infrastructure using Terraform.

Career Break (June 2022 – January 2026)

- Career break following the completion of an H1B on-site assignment due to relocation, visa sponsorship constraints, and maternity leave (Sep–Dec 2025), while continuously strengthening technical skills through independent Python/AWS projects and cloud certifications.
- Built and deployed a personal engineering portfolio on AWS EC2 (August 2024), later migrating the application to Amazon ECS using Terraform and modern cloud deployment practices.

Accenture Solutions Pvt. Ltd. | Banking and Insurance | July 2019 – June 2022

- Designed and implemented cloud-native data processing and ETL solutions using AWS Lambda, EMR, Glue, Redshift, RDS, Step Functions, and DynamoDB, processing 500K+ records and 2M+ daily transactions.
- Built event-driven serverless workflows and Python-based data processing, reconciliation, and automation utilities using S3, Lambda, Pandas, and NumPy, reducing manual effort and improving processing efficiency.
- Automated cloud infrastructure and application scheduling using CloudFormation and EventBridge, while monitoring production workloads through CloudWatch.
- Developed reusable Python/Unix automation, EMR bootstrap scripts, operational reporting, log validation, and SQL-based utilities to streamline enterprise data processing and issue detection.
- Collaborated with business and technical teams to translate functional requirements into scalable cloud solutions, resolve production issues, and deliver Agile enhancements.
- Managed AWS security and deployment activities using STS, AssumeRole (SAML), AWS CLI, Git, and Confluence, while mentoring team members and sharing technical knowledge.

IBM India Pvt. Ltd. | Banking and Finance | November 2015 – June 2019

- Developed a supervised machine learning solution for automated email categorization in Python using TF-IDF-based feature extraction, significantly reducing manual email triage effort.
- Built a daemon-based event-driven automation and monitoring solution using Python, SQL, VBA, and VBScript that automated task scheduling, validation, and real-time trend analysis, supported by custom dashboards, reducing manual operational effort by 20+ hours per week.
- Supported enterprise applications by investigating production issues, implementing enhancements, and improving application stability through timely root cause analysis and resolution.
- Created technical documentation, process flow diagrams, and deployment procedures using Confluence while managing source code through Bitbucket.

CERTIFICATIONS:

- AWS Certified Developer – Associate
- Microsoft Certified: Azure Fundamentals
- Hashi Corp Certified: Terraform Associate
- AWS Knowledge: Cloud Essentials

ACADEMIC DETAILS:

Bachelor of Technology in Electronics and Communication Engineering

Rajasthan Technical University (RTU), Rajasthan, India | Graduated with Honors, 2015

INDEPENDENT PROJECTS:

Portfolio Website (2022-2025)

Python | Django | Next.js | AWS | Terraform

Cloud-hosted portfolio showcasing interactive cloud projects, and creative work through interactive experiences that reflect both technical expertise and personal interests.

Projects developed during career transition; portfolio deployed on EC2 (Aug 2024), later migrated to ECS.

Project Link: asmitasuruchi.com

Highlights:

- Built backend APIs using Django REST Framework.
- Deployed on AWS using ECS Fargate, S3, Route 53, and Terraform.
- Implemented authentication, project management, feedback system, and responsive UI.
- Used Cursor as an AI-assisted development tool to accelerate implementation while independently validating architecture, code, and deployment.

Shopping Category Analysis (2022-2025)

Python | Django | Pandas | NumPy | Scikit-learn | PostgreSQL

Retail analytics application combining business intelligence dashboards with a machine learning recommendation engine to analyze purchasing behavior and generate personalized product recommendations.

Project Link: asmitasuruchi.com/projects/project2

Highlights:

- Built interactive analytics dashboards for sales trends, customer demographics, and purchasing behavior.
- Implemented a recommendation engine using TF-IDF, cosine similarity, and purchase history.
- Developed REST APIs for dataset generation, model training, and recommendations.
- Stored application data in PostgreSQL and model artifacts on Amazon S3.

Disk Space Monitor (2020)

Cross-platform Python utility to monitor disk utilization, generate storage reports, and proactively identify low disk space conditions.

Published as an open-source project with comprehensive documentation and configuration support.

Project Link: github.com/Asmita-1223/DiskSpaceMonitor

AWARDS/RECOGNITIONS

- February 2022 | Leadership Recognition Award (Redshift Data Reconciliation Framework)
- December 2021 | Accenture Celebrates Excellence (ACE) Award
- July 2021 | Leadership Recognition Award
- February 2021 | PINNACLE Award
- November 2020 | Super Dexterous Award (Cloud File Processing Framework)
- November 2017 | Manager's Choice at account level
- August 2016 | Manager's Choice Award at project level