

SHARKESH J

DevOps Engineer

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— PROFESSIONAL SUMMARY —

Entry-level AWS/DevOps Engineer with a hands-on foundation in AWS (EC2, S3, IAM, VPC, Lambda, CloudWatch, CloudFront), Linux command-line work, shell scripting, Git/GitHub, and CI/CD with GitHub Actions. Experienced in troubleshooting access, authentication, and networking issues, and in collaborating with development teams on deployments. Seeking an AWS/DevOps Engineer role to support application deployment, CI/CD pipelines, monitoring, and system availability while following cloud security and networking best practices.

— EXPERIENCE —

Python Developer Intern (IT Intern)

Aug 2023 — May 2026

Sysslan IT Solutions

- Built Python automation scripts for grid-based data manipulation and email validation, improving workflow efficiency and repeatability — improving results by 20% (replace with your real metric).
- Developed a web scraping tool with BeautifulSoup to extract and structure data from live websites for faster analysis and reporting — improving results by 20% (replace with your real metric).
- Built a command-line expense tracker with input validation, organized output, and file-based record storage.
- Applied OOP, error handling, and file I/O across assignments, strengthening scripting, debugging, and troubleshooting skills useful for cloud and deployment support tasks.
- Collaborated with cross-functional teams, improved processes and delivered work on schedule.

— EDUCATION —

Bachelor of Computer Applications, Artificial Intelligence and Data Science

2023 — 2026

Dr. M.G.R. Educational and Research Institute, Chennai · 7.33

— TECHNICAL SKILLS —

EC2 S3 IAM VPC Subnets Security Groups Internet Gateway Lambda CloudWatch CloudFront VPC design

public/private subnets routing TCP/IP/IP DNS HTTP/HTTPS ports load balancing concepts CI/CD concepts

GitHub Actions pipelines deployment automation SDLC Agile Microservices fundamentals Linux Linux administration basics

Shell Scripting SSH command-line troubleshooting Docker Dockerfile images and containers port mapping Docker networking

volumes Git GitHub branching pull requests merge conflict resolution

— PROJECTS —

Collaborative Static Website Development & CI/CD Deployment (Team Project)

- Built and deployed a responsive multipage static website with a 4-member team, using Git feature branches, pull requests, and peer code reviews to merge into main without conflicts.
- Designed a CI/CD pipeline with GitHub Actions (.github/workflows/ci-cd.yml) that validates HTML on every push and pull request and automatically deploys to GitHub Pages once checks pass.
- Troubleshoot a GitHub authentication failure (HTTPS password auth no longer supported) by generating and configuring a Personal Access Token (PAT), restoring the team's ability to push code.
- Automated the end-to-end release process, replacing manual uploads with continuous, verified deployments to a live site.

Solar Tracking System

- Developed an IoT-enabled solar tracking system using ESP32 and Python that aligns panels through real-time sunlight tracking.
- Built machine learning models to predict solar energy output and a Flask-based web dashboard for real-time monitoring and control.
- Documented the full setup and workflow with screenshots for deployment reference.

Shark AI Assist

- Built an AI-powered chatbot using Google's Generative AI API, handling information retrieval, coding support, and content generation.
- Managed version control and repository organization with Git and GitHub.

— CERTIFICATES AND WORKSHOPS —

- Workshop on Cloud Computing using AWS — Tamil Nadu Advanced Technical Training Institute
- SWAYAM Certified Python Developer