

Amudha Balamurugan

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PROFILE SUMMARY

DevOps | Cloud Engineer | System Engineer | CI/CD Automation | SRE

DevOps/Cloud Engineer with hands-on experience automating infrastructure, supporting high-availability production systems, and building resilient CI/CD pipelines. Proficient in AWS cloud services, scripting, and environment troubleshooting across Linux and Windows platforms. Passionate about automation, infrastructure as code, and empowering developers with scalable and secure tools.

TECHNICAL SKILLS

Cloud Platforms: AWS tools including Lambda, IAM, S3, and CloudFormation/Serverless

OS & Web Servers: Linux, Windows,, NGINX

CI/CD Tools: Git, GitHub Actions, Jenkins

Containerization tools : Docker, ECS, Kubernetes

Configuration Management: Ansible, Terraform

Scripting & Automation: Bash, Python, PowerShell, CloudShell

Monitoring & Troubleshooting: CloudWatch, Splunk, Log Review, Root Cause Analysis

Other: REST APIs, Git Repositories, Lucid Chart, Jira, Confluence,

EDUCATION

AWS Cloud DevOps Engineer, Level Up in Tech, Palmyra, VA

Jan 2024 - July 2024

AWS Re/Start Graduate, Per Scholas, Newark, NJ

Feb 2022 - Jun 2022

M.Tech in Technology, National Institute of Technology, Tiruchirapalli, India

Aug 2003 - Jun 2005

B.E. in Engineering, University of Madras, India

Aug 1995 - Jun 1999

CERTIFICATION

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| • AWS Certified Solution Architect Associate | Mar 2025 – Mar 2028 |
| • AWS Certified AI Practitioner | Mar 2025 – Mar 2028 |
| • AWS Certified Developer Associate | Apr 2024 – Apr 2027 |
| • Terraform Associate | Sep 2024 – Sep 2027 |
| • Splunk Core User | Nov 2023 – Nov 2026 |
| • Google Cloud Cybersecurity | Nov 2024 - Nov 2027 |
| • Google Data Analytics | Dec 2024 - Dec 2027 |
| • AWS Certified Cloud Practitioner | May 2022 – Mar 2028 |

EXPERIENCE

Cloud Engineer – Freelancer | Immigrant Buddies (Remote, Feb 2025 – Present)

- Assisted in building and managing **automated CI/CD pipelines** using GitHub Actions and AWS Amplify Deploy for full-stack application deployments
- Provisioned AWS resources via **CloudFormation** and ensured applications deployed automatically and reliably in production
- Collaborated with developers to debug CI failures, environment mismatches, and deployment issues
- Provided off-hours support for production migrations and outages, performing root cause analysis and resolution
- Set up developer tools and monitored infrastructure performance using CloudWatch and scripted logs analysis
- Documented the CI/CD workflow and testing stages for the web application on Confluence

- Calculated and optimized the cost of cloud operations, reducing expenses by 30% using AWS Lambda and startup-specific strategies, and earned AWS credits for the trial run

DevOps Engineer Trainee | Level Up in Tech (Remote, Jan 2024 – Jan 2025)

- Gained hands-on experience in Linux and Windows administration within hybrid cloud environments
- Built infrastructure-as-code pipelines using Terraform and CloudFormation to support scalable cloud deployments
- Set up and managed Git repos and contributed to version-controlled XML configurations for multi-service projects
- Created monitoring scripts and alerting flows using Python utilized various documenting tools like Canva, Notion and eraser.io
- Cultivated the habit of publishing my project work as a technical blog, gaining 100+ followers on Medium and enhancing personal brand visibility

Junior Web Developer | Cloud City Partner (Remote, Oct 2022 – Jun 2023)

- Engineered the streaming app for the client and developed the serverless architecture for the application.
- Created architecture diagram using Lucid Chart and drawio
- Managed and streamlined the project through GitHub Projects ensuring timely delivery and improved collaboration
- Educated and motivated the team to use cloud concepts, accelerating workflow by 20% without compromising quality

PROJECTS

DockerFile Optimization

- Analyzed and tested the web application using base Dockerfile.
- Optimized the Dockerfile to reduce the deployment time and the storage space for the image.
- Generated a new Optimized Docker Image from the optimized DockerFile.
- Minimized the size of the application by 89% and build time by 94%

CI/CD Pipeline & Cloud Automation – AWS

- Automated deployment pipeline with GitHub Actions → Code Deploy → AWS API Gateway, Lambda + DynamoDB including error handling and rollback
- Integrated test runners and monitored release health with CloudWatch logs

AWS 3-tier Architecture - Terraform

- Deployed a highly available, fault-tolerant AWS infrastructure with CloudFormation, provisioning development, testing, and production environments.
- Configured EC2 auto-scaling groups with ELB and RDS MySQL, reducing downtime by 50%

ACHIEVEMENTS

- AWS Community Builder 2025 in the category of Dev Tools
- Earned 6 industry level certifications since April 2024
- Completed a 15-week AWS workshop focusing on real-world cloud solutions.
- Earned three cybersecurity skill badges from Google, Rackspace, and the Department of the Treasury.
- Maintaining a Diamond League status on Google Cloud Skill Boost for 22+ weeks.