

Sri Laguduva

"Loyalty is a two-way street. If I'm asking for it from you, then you're getting it from me!"

Ambitious DevSecOps enthusiast, adept at seamlessly integrating Dev, Sec, and Ops to ensure swift code delivery with uncompromising security. Eager to contribute expertise and drive rapid company growth through innovative solutions and collaborative prowess.

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Certifications

AWS Solutions Architect Associate & Professional | AWS Well-Architected Framework Pillars & Essentials for Architects | SRE - DevOps Foundations | Kubernetes Hands-On Certification | Docker Mastery with Kubernetes | Microsoft Azure Fundamentals (AZ-900) Cloud Concepts | Flutter Development with Dart | Cybsafe Certification in Security Awareness

Work History

DevSecOps Engineer (Nov 2023 – Present) at *UK Public Sector Company (Contract - Inside IR35)*

I am responsible for leading the DevSecOps with a dedicated team building a framework which will allow any team using this product to build their own questionnaire forms complying with the UK Government design. I am responsible for maintaining the Terraform Infrastructure as Code and AWS Accounts. The role was to remove all the duplicate Terraform code, modularise resources that are frequently used across multiple teams, proactively identify and address infrastructure and security issues, and create the require infrastructure for the Framework team to deploy the application using CI/CD. I proposed the use of AWS SSO in the company since the use of logging in, permissions and user management in AWS are outdated. I also explored dashboarding solutions using native AWS tools and resources and proposed multiple solutions to provide visibility across the SLT and board starting with AWS costs.

Tools: AWS Cognito, AWS Lambda functions, API Gateway, Github Actions, CodePipeline, CodeBuild, Terraform & In-house Modules, Python, Poetry, DynamoDB, TruffleHog, Static Code Analyser - PMD, ShellCheck, BATS, Docker Scout, Bandit, OpenVAS, Snyk, AWS Security Tools.

AWS DevSecOps Engineer (Jun – Oct 2023) at *DMG Events Ltd, UK (Contract - Outside IR35)*

I lead DevSecOps, collaborating closely with the Data Engineering Team, and responsible for maintaining the CloudFormation Infrastructure as Code and AWS Accounts. The role was to proactively identify and address infrastructure and security issues, proposing updates and fixes while implementing DevSecOps strategies like Github branching, versioning, CI/CD, and Agile methodologies. I introduced AWS CDK as an alternative to CloudFormation using Python and integrated Github Actions for CI, embracing the "Shift Left" in Testing. I introduced vulnerability scanning for third-party packages and images in use.

Tools: AWS Glue, AWS Managed Apache Airflow, LakeFormation, QuickSight, Athena, Grype, Bandit, Github Actions, CodePipeline, CodeBuild, CloudFormation, AWS CDK, Python, Redshift, Lambda functions, SNS, SQS, DynamoDB, TruffleHog, Static Code Analyser - PMD, ShellCheck, BATS, Docker Scout

DevSecOps Architect (Sept 2022 – April 2023) at [Cardeo Ltd, UK \(Contract - Outside IR35\)](#)

As the DevSecOps leader, I collaborated closely with the CTO where I successfully secured \$100,000 in AWS Credits. My role involved defining DevOps methodologies, security frameworks for applications & AWS infrastructure. I implemented secrets management using Secret Manager and set up 1Password. I led the creation of Infrastructure as Code using AWS CDK, orchestrated CI/CD pipelines with GitHub Actions and AWS resources, and migrated DB to AWS RDS Aurora and apps to ECS. I migrated domain management from Google Domain to AWS. I created, configured, and deployed app components such as self-hosted Redis Cache Cluster, Metabase, and Retool. A major contribution to defining and reviewing Information Security Policy and Risk Management Policies.

Tools: Heroku, IBM Compose, Grype, Bandit, Github Actions, CodePipeline, CodeBuild, CloudFormation, AWS CDK, Python, Redis, Lambda functions, RDS Aurora, DynamoDB, TruffleHog, Static Code Analyser - PMD, ShellCheck, BATS, Docker Scout, Cybsafe Security Training, CloudWatch, LogDNA, DefectDoJo, SonarQube, PostgreSQL, Docker, Bash.

Principal DevSecOps Engineer (June 2021 – July 2022) at [Echobox Ltd, London, UK](#)

As the Head of the DevOps Chapter, I managed & mentored a team of three DevOps Engineers, aligning DevOps OKRs with multiple squads' Strategic Intentions. I automated on-premise infrastructure deployment using AWS Services and implemented SemVer for streamlined software releases. I optimized reliability and efficiency by introducing Github Actions & submodules and initiated a Bug Bounty program along with SAST, DAST, and Vulnerability Scanning to enhance application security. I introduced best practices for maintaining AWS resources and served as an SME for AWS services, CI/CD Pipelines, Kubernetes, and Helm Charts. I single-handedly handled the migration of EKS and MongoDB Cluster while introducing tools like AWS DevOps Monitoring Dashboard and AWS Prometheus & Grafana Dashboard for better metrics observability.

Tools: AWS EKS, Helm Charts, SageMaker, Kubernetes, Grype, Bandit, Github Actions, CodePipeline, CodeBuild, CloudFormation, AWS CDK, TypeScript, Python, Redis, Lambda functions, RDS, MongoDB, TruffleHog, Static Code Analyser - PMD, ShellCheck, BATS, Docker Scout, Cybsafe Security Training, Prometheus & Grafana, CloudWatch, Loggly, DefectDojo, SonarQube, OpenVAS, Bug Bounty Programs, Amazon CodeGuru, DataDog, New Relic, PagerDuty, Zapier, AWS Macie, AWS Inspector, AWS GuardDuty, AWS Firewall Manager, AWS WAF, AWS ControlTower, AWS Client VPN, Docker, Bash

Senior DevOps Engineer (Jan 2019 – May 2021) at [Lumar.io, London, UK \(then Deepcrawl Ltd.\)](#)

With strong teamwork and expertise, I developed robust solutions meeting client needs, reorganized AWS accounts with advanced security using Python scripts, and co-authored CDK code for high-throughput systems. I designed CI/CD pipelines, established the AWS EKS development environment, and actively researched new technologies for improved solutions. I also created an AWS Account bootstrap tool that uses OneLogin SAML to authenticate using SSO and also set basic features like VPC, TGW, HostedZones, IAM Roles & Policies, and delete all the default resources from accessible Region.

Tools: AWS ECS, Lambda Functions, Fargate, OneLogin, Python, TypeScript, AWS CDK, CodePipeline, CodeBuild, Travis CI, SonarQube, DefectDojo, TruffleHog, Gitleaks, Docker Scout, Claire, Grype, DataDog, OpsGenie, Prometheus & Grafana, CloudWatch, PCI DSS compliance, Puppet, AWS SSO, AWS Firewall Manager, AWS Control Tower, AWS WAF, AWS Shield, Athena, EMR, Kinesis, PostgreSQL, Docker, Bash

DevOps Engineer (June 2016 – Dec 2018) at [Pole Star Space Applications Limited, London, UK](#)

As a skilled DevOps expert, I led successful initiatives, re-architected microservices with CI/CD pipelines, and enhanced security on AWS. I introduced DR solutions, optimized infrastructure, and managed seamless migrations, implementing monitoring and DevOps scripts effectively.

Tools: AWS, Jenkins, Docker, Puppet, CloudFormation, Bash, Python, AWS CodeDeploy, ELK, MySQL, PostgreSQL

DevOps Consultant (Apr - June 2016) at [Happiest Minds Technologies Pvt Ltd, Bengaluru, India](#)

I was hired to provide expertise on DevOps initiatives and help the team with DevOps Culture and policies. I was also responsible for standardising and automating the deployment procedures and consultation on relevant tools for project use.

Lead DevOps Professional (June 2011 – Feb 2016) at [Bizsciences LLC, Bengaluru, India](#)

I was responsible for delivering key DevOps initiatives, designing and implementing the entire tech infrastructure in AWS along with monitoring and cost optimization of servers, security, & CI/CD using Python & Bash. Managed a team of 2 people and a SPOC in managing Clients and Vendors.

Tools: AWS, Bash, Python, Chef, AWS OpsWorks, Groovy, Java, Android Development

Founder & Chief Technology Officer - (July 2022 – Present)

[3SHTech Ltd, London, UK \(Working on off-hours and weekends\)](#)

I oversee the technology stack for product development and focus on building web platforms and mobile applications that automate daily tasks. Successfully launched three mobile apps: SuitApp, Next on Plate, & UK Settlement Planner, developed using Flutter. Currently, developing SacredBox, a web platform connecting niche service providers with customers using NodeJS, ExpressJS, React and MongoDB. I secured \$5500 as AWS Credits to run the MVP

Tools: AWS CDK, Bash, Python, NodeJS, Express JS, MongoDB, TypeScript, Lambda Functions, AWS ECS, Fargate, Flutter, Dart, Swift iOS, Docker, AWS Cognito, AWS WAF, AWS CloudFront, GitLab & its CI/CD pipelines, WordPress, Elementor, Stripe integration, MySQL, SAST, DAST, Vulnerability Scanning, Grype, Bandit, Jest, PyTest, ShellCheck

Lead DevSecOps (July 2022 – Oct 2023) at [Digy4 Inc, Canada \(Equity-Based Partnership\)](#)

As the DevOps Team Lead, driving the successful launch of the SaaS Dashboard. My responsibilities are creating AWS resources using Terraform & Terragrunt, enhancing security, and automating processes. I spearheaded containerization with Docker and EKS for the Digy Dashboard, introduced AWS CDK for REST API development, and developed the product for deployment on the AWS Marketplace, allowing clients to run their Digy4 SaaS Dashboard, known as "BYOC - Bring your own Cloud."

Tools: AWS, Bash, NodeJS, Terraform, Terragrunt, Rego Policies, EKS, Helm Charts, Docker, Github Actions

Notable Personal Projects

Azure Projects: Created a Joomla Website for a client to deploy them into AKS and built CI/CD pipeline using Azure DevOps. Azure Container Instances and Azure Pipelines were also explored in the project

Azure Key Vault in CI/CD: Created an Azure Key Vault to store User Credentials, API Keys, Passwords, and Certificates that the CircleCI can use in building the container image of the application. Utilised Azure Security Center and Azure DevOps tools for vulnerability scanning, code analysis, and automated testing

AI-Driven IDS: Implemented an Intrusion Detection System on AWS to analyse network traffic and log data in real-time to identify potential security threats and anomalous activities like DDoS, providing early warnings on various channels using SNS and responding proactively in blocking such threats. Used SageMaker and ML Algorithms of intrusion detection like Random Forest for Supervised learning classifiers and Isolation Forest for anomaly detection techniques

Disaster Recovery: Involves snapshot scheduling, cross-region & cross-account replication. Reduced RPO from 6 hours to 0 and RTO from 24 hours to 30 minutes using Infrastructure as a Code method

MongoDB Migration: Migrating the Compose Mongo Cluster to an in-house cluster which saved above \$6000 per month

Shopify: Created an online shop using Shopify to sell women's leggings in India for my sister's business. Extend the online availability by adding the shop profiles to Instagram, Dunzo, Meesho and Amazon

PostgreSQL PGBadger: Running a cost-effective log analyser process using AWS DataPipeline and providing the results on S3 Static Website. Also providing the archival solution for the logs stored in S3

Security Compliance Tool: Creates a compliance tool using Python to check stale SGs & SGs with wide-open ports, check IAM users, roles and policies on the AWS Accounts that are outdated, stale and have wider permissions or those not following principle of least privileges to follow defined compliance policy with ability to extend to other AWS resources like AWS WAF, NACL, Route tables, etc

EC2 Instance Scheduler: Cost-saving project by shutting down dev and test instances overnight and weekends using Resource Tags, Lambda and DynamoDB

UK Settlement Planner - MobileApp: Tool to help users to keep a digital record of UK Visa and travel information on their mobile devices and calculate the settlement eligibility for ILR and Citizenship based on their latest immigration status (discontinued from 2022)

SuitApp - Digital Travel Wardrobe App: Mobile App that helps to create a digital wardrobe and helps in planning and organising outfits for the upcoming any trips. <https://www.suitapp.co.uk>

Next on Plate - Everyday Meal planning App: Mobile App to help planning and organising everyday meals and get notified promptly before meal time. This is currently being extended to a marketplace platform that allows local private bakers, chefs and cooks to advertise their business and get customers. <https://nextonplate.com>

DevOps Testing: To ensure automated testing of the DevOps Codebase. The project was done using Containers, Github Actions and Python Scripts. The tools used are Shell Check, BATS, Grype, DockerScout, Bash Scripts to run tests against IaC Codebase.