

# Dharmalingam S

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## Professional Summary

- Experienced professional with 11 years of experience as a **Golang Developer** and **DevOps Engineer**, driving innovation in Research & Development across various industries.
- Proven expertise in building and optimizing high-performance microservices, leveraging cloud technologies like **OpenStack**, **Kubernetes**, **AWS** and **Docker**.
- Skilled in automating deployments using **Helm** and **Ansible**, achieving a **95% reduction in deployment time** and significantly enhancing operational efficiency.
- Extensive experience in **cloud infrastructure** management, with deep knowledge of deployment strategies, **security** and **vulnerability assessment** throughout the product lifecycle.
- Proficient in programming with **Golang**, **Python** and **Shell scripting** to develop solutions, automate processes and improve system efficiency.
- Expertise in **Linux** systems administration, optimizing performance and ensuring high availability of cloud-hosted applications.
- Led cloud infrastructure projects, utilizing platforms like **AWS** and **OpenStack** to ensure scalable, reliable and secure cloud environments for enterprise-level applications.
- Collaborated with cross-functional teams to streamline development processes, enabling faster delivery cycles and reducing operational bottlenecks.
- Hands-on experience in **package build and maintenance**, utilizing **OpenBuildService** to create and manage consistent and reproducible software packages across multiple environments.
- Regularly conducted vulnerability assessments, ensuring the integrity and security of deployed services and mitigating risks across the product lifecycle.

## Technical Skills

- Golang, Python, Shell scripting, gRPC, REST APIs
- Docker, Kubernetes, Helm
- Ansible, Terraform
- Cloud Computing, Microservices, OpenBuildService
- Ericsson-CEE, OpenStack, AWS
- LDAP, IAM, SSO, Git, CI/CD, Doxygen
- Grafana, VictoriaMetrics, ELK stack
- ETCD, Kafka, Linux

## Work Experience

### Senior Developer - Tata Consultancy Services - Ericsson AB, Sweden - CMC

Dec 2022 - Sep 2024

- Designed and implemented GitOps-driven containerized microservices (CMC) for cloud IaaS, automating configuration, lifecycle management (LCM) and deployments, reducing manual efforts by 95%
- Developed and deployed microservice-based private HTTP server to host Git repositories for efficient configuration management
- Dockerized and deployed microservices to Kubernetes using Helm, streamlining workflows & improving deployment speed
- Engineered secure, high-performance REST APIs for LCM, cloud deployment and configuration management, aligning with GitOps principles and implemented TLS for secure communication
- Developed microservices in Golang, ensuring scalability, high performance and unit test coverage >95%

- Utilized ETCD for reliable data storage and ensured high availability
- Integrated Keycloak for centralized authentication & authorization between microservices for enhancing security
- Led development team as technical SPOC and conducted study on ArgoCD integration for continuous delivery
- Collaborate with cross-functional teams to ensure the smooth deployment and operation of microservices, addressing issues proactively and optimizing performance
- Continuously improve the core system by implementing best practices in development, testing and maintenance, while ensuring compliance with industry standards and regulations

#### Senior Developer - Tata Consultancy Services - Ericsson AB, Sweden - CEE

Apr 2019 - Nov 2022

- Involved in development of container based cloud solution (CEE) for telco-grade virtual infrastructure management on OpenStack
- Implemented an LDAP (389ds) IAM solution, enabling high availability (HA), single sign-on (SSO) and comprehensive password, sudo and access control management
- Integrated LDAP as OpenStack Keystone backend for host and user authentication, utilizing a custom LDAP schema for optimized security
- Delivered REST APIs and CLI for LDAP operations, developed in Python (OpenAPI) and Golang
- Dockerized and integrated Kafka and Zookeeper for backend storage in OpenStack event notifications, enabling high-scale deployments
- Enabled secure communication for Kafka & Zookeeper and added kafka driver support for custom OpenStack(Mitaka) flavor
- Containerized VictoriaMetrics and related plugins (collectd, cAdvisor, etc.,) for metric collection, leveraging Grafana for visualization
- Developed Ansible playbooks to automate deployment workflows, integrating with Kolla-Ansible, optimizing OpenStack deployment
- Built and maintained RPM packages, implemented CVE fixes and worked with security team for program-level product approval to ensure compliance and security
- Contributed to Opensource projects like OpenStack, Zun, oslo-messaging, kolla-ansible and 389ds-server  
[http://stackalytics.com/?release=all&user\\_id=cooldharma06](http://stackalytics.com/?release=all&user_id=cooldharma06)

#### Previous Experience

Senior Developer - Tata Consultancy Services - Ericsson, Hungary - vCEE

Jun 2017 - Mar 2019

Software Engineer - HCL technologies - CISCO, India

Jul 2016 - Mar 2017

Project Engineer - C-DAC - ELCOT, IDRBT & DEITY, India

May 2013 - Jun 2016

#### Achievements

- Delivered GitOps-compliant APIs for cloud deployment, automating processes to reduce manual efforts by 95% and enhance development efficiency
- Built >2K **Opensource rpm** packages for seamless CEE product delivery
- Received **Ericsson PDU Cloud XL** award and scored 8/10 in Alva's logic test
- Was a member of Ericsson Security Master program
- **Opensource** Contributor
- Received client appreciation for delivering high-quality work under tight deadlines
- Served as onsite coordinator, worked with geographically diverse teams to deliver effective solutions

#### Education

Bachelor of Engineering