THARUSHA THILAKARATHNA

DevOps Engineer

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PROFILE SUMMARY

DevOps Engineer with a passion for building and maintaining robust and reliable cloud-based infrastructure. Experienced in driving process improvement and automation initiatives to maintain maximum availability, reliability and resiliency of critical services. Possesses broad experience covering application and infrastructure observability, with hands-on skills in scripting, automation, and proactively troubleshooting issues. A collaborative team player with a focus on Engineering Excellence, eager to Dive Deep and become a subject matter expert.

Experience

- **Software Engineer Intern – Zebra Technologies**   **Feb 2025 – Aug 2025**
- Architected and implemented end-to-end CI/CD pipelines using GitHub Actions, automating the build, testing, and deployment processes to ensure Engineering Excellence.
- Utilized Python and bash scripting for process improvement and automation initiatives, including a major database migration from MSSQL to PostgreSQL.
- Managed containerized applications using Docker, automating image deployment to a JFrog Artifactory registry with zero downtime.
- Troubleshot issues on Linux (Ubuntu) and Windows self-hosted runners, optimizing build configurations and ensuring maximum availability.

   Tech Stack: PostgreSQL, MSSQL, Python/Shell Scripting, Docker, Self-hosted runners, Linux, GitHub Action.

PROJECTS

Scalable Cloud Analytics Platform for Healthcare IoT Data (Research)   **Mar 2024 - Present**

- Automated the provisioning and configuration of a multi-node Google Cloud Dataproc cluster using gcloud CLI commands and initialization action scripts for big data workloads.
- Engineered and deployed a distributed PySpark application, demonstrating horizontal scalability, reducing end-to-end processing time, and increasing throughput.
- Managed the deployment lifecycle of PySpark jobs, submitting and monitoring machine learning workflows in a distributed YARN environment, ensuring successful execution and resource management.

   Tech Stack: PySpark, Google Cloud Platform, Dataproc, Google Cloud Storage, Bash/Shell Scripting, Git.

Exam Registration System | Group   (GitHub)   **Mar 2024 - Sep 2024**

- Validated application deployment, stability, and performance within the AWS Cloud environment.

   Tech Stack: AWS, .NET, Selenium WebDriver, xUnit, NUnit, MySQL, Jira, Git.

SKILLS

- **Programming Languages:**   Java, Python.
- **DevOps:**   GitHub Actions, Docker, Kubernetes, Terraform, Ansible, Jenkins, Git Lab CI, AWS CloudFormation, Python/Bash/PowerShell Scripting, Prometheus, Datadog, EC2, ECS, EKS, CloudWatch, VPC.
- **Databases:**   MySQL, Microsoft SQL, PostgreSQL, PL/SQL.
- **Cloud Platforms:**   Amazon Web Services (AWS), Google Cloud Platform (GCP).
- **Tools:**   GitHub, Jira
- **Operating Systems**   Windows, Linux(Ubuntu, RHEL).

EDUCATION

- **BSc. Engineering (Hons.) In Computer Engineering**   **Jul 2021 - Present**

  University Of Jaffna

- **G.C.E. Advanced Level Examination (Physical Science)**   **2016 - 2019**

  Dhammissara National College – Nattandiya

CERTIFICATIONS

• Infrastructure as Code	(Certificate link)	**Aug 2025**
• DevOps Professional Certificate by PagerDuty	(Certificate link)	**Oct 2025**
• Docker Foundations Professional Certificate	(Certificate link)	**Apr 2025**
• Kubernetes: Microservices	(Certificate link)	**Apr 2025**
• GitHub Foundations	(Certificate link)	**Dec 2024**
• GitHub Actions	(Certificate link)	**Jul 2024**

AWARDS AND ACHIEVEMENTS

• IEEE Xtreme 18.0	*Global rank - 109, All Island rank - 06, University rank - 01*	**Oct 2024**
• Agni Xtreme V 1.0	*Champions*	**Oct 2024**
• ACES Coders V11.0	*All Island rank - 10, University rank - 01*	**Oct 2024**
• Huawei ICT Competition 2023	*All Island rank - 10 (**Network Category**)*	**Dec 2023**

VOLUNTEERING

Vice Chairman (*IEEE CS Student Branch Chapter, University of Jaffna*)   **Jan 2024 - Present**

REFEREES

Jeevan Amarasekara,
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