

Software Engineer with 4+ years of experience in cloud-native development, microservices, and DevOps. Proficient in Go, TypeScript, React.js, NestJS, and AWS, with expertise in scalable backend architectures. Currently pursuing an MSc in Data Science and AI at the University of Moratuwa, focusing on big data analytics, machine learning, and cloud computing. Adept at leading teams, solving complex technical challenges, and optimizing system performance. Seeking opportunities to leverage backend engineering, cloud infrastructure, and AI-driven solutions to enhance scalability, efficiency, and innovation in dynamic environments.

SKILLS

Programming Languages	Python, TypeScript, Go, JavaScript
Web Development	React.js, Next.js, Node.js, NestJS, Django, Gin, Express.js
Databases	PostgreSQL, MySQL, MongoDB, Firestore
Cloud & DevOps	AWS (EKS, RDS, CloudWatch, Aurora, CodePipeline, Lambda), Kubernetes, Docker, ArgoCD, GitOps
Backend Technologies	GraphQL, REST APIs, Microservices, CI/CD Pipelines, Serverless Architecture
Caching	Redis (Single Instance, Redis Cluster), Firebase Realtime Database
Frontend Technologies	Tailwind CSS, Google Analytics, Firebase
Data Engineering & AI	Data Pipelines, Big Data Analytics, Machine Learning
Version Control & Tools	Git, GitHub, GitLab, LaTeX, Markdown, Postman

EXPERIENCE

Software Engineer

Econsulate

Mar 2025 — Present

Sri Lanka

- Led the development of a real-time dashboard to visualize sensor and detection data from UAVs and UGVs developed by the Xavier AI team.
- Engineered an automated talent acquisition solution utilizing OCR and the Gemini API to extract unstructured data from resumes and populate candidate profiles.
- Orchestrated the deployment of a multi-tenant microservices platform and the official website for a Sri Lankan government ministry, utilizing AWS CloudFormation for infrastructure provisioning.
- Developed and optimized machine learning models for real-time detection and classification tasks using PyTorch, YOLO, and OpenCV.
- Evaluated and deployed models using ONNX to achieve efficient inference across edge devices.
- Implemented WebSocket-based data streaming to ensure seamless live monitoring of robotic and surveillance operations.

Senior Software Engineer

Derana Macroentertainment - Macro Labs

Jan 2024 — Feb 2025

Sri Lanka

- Led development of a scalable social media platform for volunteers, focusing on data management, containerized deployments, and backend scalability.
- Designed cloud-native architectures using Go, NestJS, and AWS for scalability.
- Built real-time dashboards to enhance insights and content management.
- Integrated microservices and CI/CD pipelines to streamline deployment.

Software Engineer

Derana Macroentertainment - Macro Labs

Dec 2022 — Jan 2024

Sri Lanka

- Developed high-traffic web applications for news platforms, optimizing performance and scalability.
- Built a cloud-based content delivery system with a dashboard for scheduling and tracking.
- Developed a real-time election data visualization system for accurate updates.
- Led development of an online marketplace with a scalable architecture.
- Enhanced frontend performance using Next.js, Tailwind CSS, and AWS.

Software Engineer Intern

Insharp Technologies

Jan 2022 — Jun 2022

Maharagama, Sri Lanka

- Contributed to a professional networking platform, improving user engagement.
- Worked in agile teams, enhancing collaboration, planning, and time management.
- Gained experience in full-stack development, optimizing frontend-backend integration.
- Developed backend services with Django, React.js, and cloud technologies.

### EDUCATION

<b>MSc in Data Science and Artificial Intelligence</b> , University of Moratuwa	Jan 2025
<b>Bachelor of Computing (Software Engineering)</b> , Curtin University	Jan 2020 — Mar 2023

### PROJECTS

#### Ada Derana 24x7 – English/Sinhala/Tamil News Platforms

Derana Macroentertainment - Macro Labs

Jan 2024 — Present

- Developed a tri-language news platform for Ada Derana 24x7 with scalable web apps, dashboards, and backend architecture.
- Designed AWS-based infrastructure to deploy test environments, ensuring reliable and seamless content management.
- Led a team to build user-friendly solutions, ensuring efficient content updates and milestone progress.
- Technologies: React.js, Tailwind CSS, NestJS, Prisma ORM, PostgreSQL, AWS.

#### ImpactNet – Online Platform for Civil Societies to Publish and Collaborate

Derana Macroentertainment - Macro Labs

May 2024 — Jan 2025

- Designed and implemented a microservices-based platform for civil societies to publish content, appeal for volunteers, and foster collaboration.
- Led architecture development, implemented GitOps workflows with Kubernetes and Argo CD, and mentored the team for efficient delivery.
- Technologies: React.js, Tailwind CSS, NestJS, Gin, GORM, Prisma ORM, GraphQL, AWS, Kubernetes.

#### Election Data Visualization – Real-Time Dashboard and Web Application

Derana Macroentertainment - Macro Labs

Jul 2024 — Dec 2024

- Built an interactive real-time dashboard to visualize Sri Lanka's election data with seamless data updates.
- Designed an intuitive admin dashboard for real-time reader engagement and efficient data handling.
- Technologies: React.js, Tailwind CSS, Firebase, AWS.

#### TheMorningLK / ArunaLK / ThamilanLK – Liberty Publishers

Derana Macroentertainment - Macro Labs

Dec 2022 — Jan 2024

- Developed three news platforms with dashboards for article management, integrating cloud-based backends for real-time updates.
- Built responsive UIs with Next.js and optimized storage and workflows using Firebase.
- Enabled analytics for insights and optimizations, ensuring scalable, high-performance solutions.
- Recognized in BestWeb.lk Awards 2024:
  - Best Designed News Website – Tamil Merit | ThamilanLK
  - Best Designed News Website – English Merit | TheMorningLK
- Technologies: Next.js, Tailwind CSS, Node.js, Firebase, Google Analytics.

#### TopADS – Sri Lanka's Largest Video-Based Classified Advertisement Platform

Derana Macroentertainment - Macro Labs

Mar 2023 — Sep 2023

- Developed a video-based classified advertisement platform with an admin dashboard for ad management.
- Built a scalable backend for reliable data handling, analytics, and performance optimization.
- Technologies: React.js, Tailwind CSS, Express.js, PostgreSQL, Prisma ORM, AWS.

### CERTIFICATIONS & ACHIEVEMENTS

#### Certifications

- AWS Academy Graduate – Cloud Data Pipeline Builder (Issued Feb 2025) Skills: Data Analytics, Amazon CloudWatch, Data Pipelines
- AWS Academy Graduate – Data Engineering (Issued Feb 2025) Skills: Data Pipelines, AWS SageMaker, AWS Glue, Amazon Elastic MapReduce (EMR), Amazon Kinesis, Data Engineering
- AWS Academy Graduate – Microservices and CI/CD Pipeline Builder (Issued Jan 2025) Skills: Microservices, CI/CD, AWS CodePipeline
- NVIDIA – Getting Started with Deep Learning (Issued Dec 2024)

#### Competition Achievements

- SLIIT CodeFest 2021 – Algothon (Runner-Up) Team: Nasty\_Owls | Competitive programming event
- SLIIT CodeFest 2021 – Capture the Flag (Runner-Up) Team: Nasty\_Owls | Cybersecurity challenge
- SLIIT Xtream 2021 (Runner-Up) IEEE Computer Society event for competitive programming