

# MUHAMMED SHAMEEL KS

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Aspiring DevOps & Infrastructure Engineer with a strong foundation in full-stack development. Passionate about Kubernetes, CI/CD automation, and cloud-native systems. Advocate for Infrastructure as Code (IaC), reproducible environments, and self-hosted reliability.

## TECHNICAL SKILLS

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<b>Infrastructure / DevOps</b>	Kubernetes, Docker, GitHub Actions (CI/CD), Tailscale, Linux (Arch), Git, YAML
<b>Programming &amp; Web</b>	JavaScript, TypeScript, Dart, Python, React, Vite, HTML/CSS, Tailwind CSS
<b>Backend &amp; Tools</b>	Supabase, PostgreSQL, MS SQL, Flutter, N8N, Figma
<b>Core Competencies</b>	Infrastructure as Code, GitOps, Container Orchestration, Self-hosted Infrastructure

## WORK EXPERIENCE

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### Kerala State Development Corp. for SC/ST

2025 – 2025

Software Developer

- Gained hands-on experience with MS SQL databases, working with queries and data filtering in real-world applications.
- Integrated modern backend services and designed clean, minimalistic user interfaces utilizing Figma.

## PROJECTS

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### Kubernetes Home Lab

Private K8s Cluster

Self-hosted Bare-Metal Infrastructure on a Sony Vaio

- Engineered a bare-metal private Kubernetes cluster running on repurposed Sony Vaio hardware to deploy self-hosted services (Pi-hole, PocketBase).
- Wrote declarative Kubernetes YAML manifests for deployments, services, and cluster networking.
- Automated the deployment pipeline utilizing GitHub Actions and configured Tailscale for secure, remote access.

### Stock Salt

Flutter, Supabase Realtime

Multi-Outlet Retail Management & POS System

- Built a real-time multi-outlet retail management platform enabling centralized inventory tracking, POS operations, and live analytics across branches.
- Developed a stock distribution system with master hub management, outlet-level allocation, and automatic inventory deductions.
- Implemented role-based access control with Supabase Realtime subscriptions, enabling instant data synchronization and live dashboard updates without page refreshes.

### k8s-demo Project

React, TS, Docker, K8s

Zero-Touch Automated CI/CD Pipeline

- Engineered a GitOps deployment pipeline: GitHub push triggers automated image builds via GitHub Actions.

- Dockerized a React/Vite frontend and deployed automatically to the K8s cluster without manual SSH intervention.

## Office Pal

Flutter, Supabase

University Workflow Management System

- Built a cross-platform application focused on improving office/college workflow management.
- Handled backend integration (Supabase) for authentication, role-based access, data storage, and simple automation flows.

## EDUCATION

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### Bachelor of Science in Computer Science

2022 – 2026

St. Thomas College (Autonomous) | Thrissur, Kerala

- **Concentrations:** Software Development and Artificial Intelligence
- **Coursework:** Full Stack Development with React & Drupal, Object-Oriented Programming, Cross-Platform Development, UI-UX Basics