

# M Lalith Kumar

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Bengaluru, Karnataka, India

## Professional Summary

Computer Science student specializing in backend systems, cloud infrastructure, and Linux environments. Experienced in building production-grade applications with Node.js, MongoDB, Docker, and Azure. Focus on scalable architecture, DevOps automation, and real-world deployment challenges.

## Technical Skills

**Languages:** C, C++, Java, Python, JavaScript, Bash, YAML

**Backend & Databases:** Node.js, Express.js, MongoDB, MySQL, REST APIs, JWT Authentication

**Cloud & DevOps:** AWS, Azure, Docker, Docker Compose, GitHub Actions, GitLab CI/CD, n8n

**Tools & Platforms:** Git, VS Code, Doppler (Secrets Management), Linux (Arch, Ubuntu, Mint), Windows 11

**Package Managers:** APT, Pacman, Yay, Paru, Winget, Chocolatey

**Web Technologies:** HTML, CSS, JavaScript, React 18, Flutter, Azure Static Web Apps, EmailJS

## Projects

### Production Backend System on Self-Hosted Raspberry Pi Server

*Node.js, MongoDB, Docker Compose, Doppler, ARM64/AMD64, Linux*

*GitHub: [github.com/Lalith-47/User-Management-API](https://github.com/Lalith-47/User-Management-API)*

- Deployed production-grade backend on self-hosted VPS-like Raspberry Pi using multi-container Docker Compose architecture with Node.js and MongoDB
- Implemented secure secrets management with Doppler and built multi-architecture images supporting ARM64 and AMD64 platforms
- Handled infrastructure challenges including port conflicts, container networking, service restarts, persistent storage, and production recovery scenarios

### Smart Student Hub (AdhyayanMarg) - Educational Management Platform

*React 18, Node.js, Express.js, Flutter, Azure Cosmos DB, JWT Authentication*

*GitHub: [github.com/Lalith-47/AdhyayanMarg\\_WebStack](https://github.com/Lalith-47/AdhyayanMarg_WebStack) | Hackathon: Smart India Hackathon 2025 Internal Round Qualifier*

- Developed unified data-driven platform transforming academic performance tracking with dynamic dashboards, progress analytics, and institutional reporting
- Built secure, scalable cloud backend with faculty approval workflows, activity tracking, and auto-generated digital portfolios for students
- Implemented full-stack solution using React 18, Node.js, Flutter, Azure Cosmos DB, and JWT authentication for multi-role access control

### Global Ad-Blocking & Private DNS System

*Raspberry Pi 5, AdGuard Home, Tailscale, WireGuard, DNS, MagicDNS*

- Built private DNS infrastructure on Raspberry Pi 5 running AdGuard Home with Tailscale mesh network for global device protection
- Configured DNS-level ad blocking using multiple blocklists (AdGuard, OISD, AdAway, Unified Hosts) with MagicDNS override across all devices
- Achieved system-wide blocking, cached DNS performance, ISP-level privacy protection, and seamless operation across WiFi, mobile data, and hotspots

### Developer Portfolio with Production Deployment

*HTML, CSS, JavaScript, Azure Static Web Apps, GitHub Actions, EmailJS*

*Live: [lalith.live](http://lalith.live) | GitHub: [github.com/Lalith-47/portfolio](https://github.com/Lalith-47/portfolio)*

- Built fully responsive portfolio deployed on Azure Static Web Apps with automated CI/CD via GitHub Actions and custom domain configuration
- Integrated client-side email functionality using EmailJS and implemented DNS configuration for production deployment

## Education

### Bachelor of Engineering in Computer Software Engineering

*Sep 2024 – Aug 2028*

Nitte Meenakshi Institute of Technology (NMIT), Bengaluru, Karnataka | CGPA: 8.2/10.0

*Jun 2022 – Mar 2024*

### Pre-University College (Science - PCMC)

St. Joseph's Pre-University College, Bengaluru | 95.6%

## Achievements

- **Smart India Hackathon 2025:** Internal Round Winner, ranked 7/500 nationwide in Problem Statement Evaluation
- Open Source Contributor with focus on Cloud/DevOps projects