

Thushar M Prakash

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PROFESSIONAL SUMMARY

Senior Software Engineer with deep expertise in designing distributed systems, offline-first architectures, and resilient cross-platform infrastructure. Specializes in peer-to-peer networking, event-driven systems, and cloud-optional environments for real-time applications. Proven ability to lead backend and infrastructure efforts across POS, CDS, and KDS platforms, with hands-on experience in production-grade payments, observability, and DevOps.

EDUCATION

Master of Technology in Computer Science and Engineering

University of Hyderabad, Telangana

Jun 2017 – May 2019

Bachelor of Technology in Computer Science and Engineering

Government Engineering College Wayanad, Kerala

Aug 2011 – May 2015

WORK EXPERIENCE

Senior Software Engineer

May 2025 – Present

Bepoz Global PTY Ltd, Oolio Group (full-time)

Melbourne, Australia

- Designed and implemented a mesh-based offline communication system for POS, CDS, and KDS across platforms (Windows, iOS, Android), enabling real-time data sync over local networks without cloud dependency
- Built decentralized peer discovery using libp2p (mDNS + Gossip) with fallback synchronization strategies to ensure data consistency
- Engineered payment integration with Verifone and Adyen terminals over LAN using secure protocols for local and cloud fallback flows
- Maintained CI/CD pipelines with Kubernetes, and enhanced system reliability across multi-platform builds
- Improved system-wide telemetry and observability for networked devices operating in offline and hybrid modes
- Collaborated on schema evolution, fault-tolerant messaging (NATS), and mobile-first SDK packaging (React Native and gomobile)

Senior Software Engineer

Aug 2023 – May 2025

TillPOS Technologies Pvt Ltd, Oolio Group (full-time)

Remote / India / Australia

- Spearheaded updates to the existing POS application
- Enhanced GraphQL query performance by refining logic using Apollo Router and gqlgen in Golang
- Contributed to Kubernetes, actively participating in the CI/CD pipeline
- Implemented changes ensuring seamless integration of existing systems with the new architecture

Senior Software Engineer

Sep 2022 – Jul 2023

Orgnyse Pty (freelance)

Remote

- Created application architecture and designed the backend
- Converted existing monolithic system to a microservices architecture
- Added new Golang services and split PHP services into smaller instances
- Established communication between services using NATS
- Set up automation for CI/CD using ArgoCD and Kubernetes
- Integrated with Stripe for payment processing
- Mentored team members on new technologies
- Developed frontend services in React and backend services
- Improved scalability to meet SLAs and SLOs
- Created organizational processes

- Led a team of engineers to complete modules for events, membership, and contacts
- Set up authentication using Keycloak and used Ory Oathkeeper and Keto for authorization

Senior Software Engineer

Mar 2022 – May 2022

Automaxis (freelance)

Hyderabad, India

- Designed a scalable architecture for FDP Connect Software
- Developed and deployed HSN Classifier
- Automated document workflows for import and customs integration
- Collaborated with Maruti Suzuki India Ltd in the Mobility and Automation Innovation Lab
- Team was runner-up in the innovation competition
- Deployed systems on Kubernetes using Traefik proxy and AWS
- Integrated AWS Textract and Meilisearch for searchable invoice extraction

Senior Software Engineer

Jul 2019 – Jul 2021

TillPOS Technologies Pvt Ltd (full-time)

Hyderabad, India

- Designed the backend system using GraphQL federation and Node.js
- Modeled database schema using DynamoDB with access patterns tailored to use case
- Built an ordering system with AWS EventBridge and SQS in an event-driven architecture
- Initiated a greenfield project and led a team of backend developers
- Delivered production-ready code with high quality and maintainability

Senior Software Development Engineer

Mar 2018 – May 2019

Automaxis (part-time)

Hyderabad, India

- Built a blockchain-based platform for cross-border digital document transfer
- Created plugins for easy integration by stakeholders
- Automated workflows for Wockhardt India by connecting to their internal systems

System Administrator

Mar 2018 – Jun 2019

AI Lab, University of Hyderabad

Hyderabad, India

- Migrated lab infrastructure to new servers and automated school website deployment
- Transitioned authentication from NIS to LDAP and Kerberos
- Configured NAS, NFS, and virtualization environments
- Created firewall policies and lab access rules for exams and workloads
- Installed and managed compute clusters

Software Engineer

May 2015 – Jul 2017

QBurst (full-time)

Calicut, India

- Developed and deployed backend systems for clients across multiple domains
- Built image-processing pipelines using Node.js, AWS Lambda, and SQS for Fast Retail Japan
- Implemented a Digital Asset Management system for Uniqlo
- Built and deployed a Django-based backend for Meisterdish with e-commerce integration
- Managed infrastructure (SSL, Nginx, Gunicorn) for production readiness

SKILLS

- **Programming Languages:** Golang, Node.js, Python
- **Technologies:** Kubernetes, Microservices, GraphQL, Docker, libp2p, NATS
- **Cloud Platforms:** AWS, GCP, Azure
- **Databases:** Postgres, DynamoDB, MongoDB
- **Platforms:** Android, iOS, Windows, macOS
- **Payments:** Verifone, Adyen (LAN/cloud integration)