

Liju Thomas

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EDUCATION

Brototype

Full Stack Development Program (Backend & System Design)

- Certificate: View

Kerala, India

2024 – 2026

Kuppam Engineering College, JNTUA

B.Tech in Electronics and Communication Engineering

Kuppam, India

2019 – 2023

EXPERIENCE

SDE-1

Sept. 2025 – Present

Aion Intelligence

Bengaluru, India

- Built a Linux node agent with offline-first design using SQLite persistence and scheduled workers for sync, heartbeat, and task updates
- Developed task and M2M authentication services for agent bootstrap, registration, audit logging, and execution workflows, exposing APIs via gRPC-Gateway
- Built versioned CI/CD release workflows publishing node agent binaries to S3 and automating container builds and pushes to AWS ECR for upstream services
- Integrated releases with the company GitOps pipeline for automated deployments
- Built an internal devtool for rapid debugging and testing of agent workflows
- Assisted with Terraform-based infrastructure provisioning and CI workflows for automated plan/apply
- Contributed fixes and feature updates to the platform frontend

PROJECTS

Zenxbattle

2025 – Present

Go, Gin, gRPC, PostgreSQL, MongoDB, Redis, Kubernetes

- Built a microservices-based competitive coding platform supporting problem solving, submissions, and leaderboards
- Developed authentication, profile, and leaderboard services in Go/Gin with JWT authentication and TOTP-based 2FA
- Implemented Redis sorted-set leaderboards with PostgreSQL and MongoDB persistence across services
- Integrated low-latency multi-language code execution for coding challenge evaluation
- Containerized backend services and deployed core components on Kubernetes with metrics and observability
- Work in progress: building challenge orchestration and live room updates using gRPC and WebSocket communication
- Links: Live | GitHub

XcodeEngine

2025 – Present

Go, Docker

- Sandboxed code execution engine supporting JS, Python, C++, and Go in isolated containers
- Achieved 20 RPS for interpreted languages and 100–300 ms p99 latency for compiled languages via warm container pooling (benchmarked on AWS t2-micro)
- Enforced execution timeouts, resource limits, and secure output capture
- Links: Live | GitHub

FoodBuddy Backend

2024

Go, Gin, PostgreSQL, Google OAuth, Stripe/Razorpay, Docker, Kubernetes

- Built a monolithic backend for a food-ordering platform
- Implemented authentication with Google OAuth, JWT sessions, OTP verification, and payments using Stripe and Razorpay
- Integrated Cloudinary for media storage and built role-based admin APIs
- Configured GitHub Actions CI/CD pipelines and Kubernetes deployment manifests
- Links: GitHub

RedisBoard

2025

Go, Redis

- Reusable library for high-performance Redis sorted-set leaderboards
- Supported atomic updates, rank queries, top-K retrieval, and namespaces with full unit test coverage
- Optimized leaderboard read performance using Redis sorted sets
- Links: GitHub

TECHNICAL SKILLS

Languages: Go (primary), TypeScript/JavaScript, Python

Backend: Gin, gRPC, NATS, WebSocket, JWT, OAuth, TOTP

Databases & Caching: PostgreSQL, MongoDB, Redis, SQLite

Infrastructure: Docker, Kubernetes, GitHub Actions, Terraform

Observability: Prometheus, Grafana, k6, Betterstack

Frontend: React, Next.js, Tailwind CSS, Shadcn UI, TanStack Query