
Murugappan M

Full Stack Engineer

Bangalore, India | +91 9095298712 | murugu2001@gmail.com | linkedin.com/in/murugappan-m-56920a192 | github.com/murugu-21 | murugappan.dev

PROFESSIONAL SUMMARY

Full stack engineer focused on cloud-native B2B SaaS — TypeScript across the stack, from React frontends to event-driven Node.js services on AWS. Currently at Medmehealth, reducing manual pharmacist effort through UI Automation and LLMs. Previously founding engineer at HyperStart CLM, where I scaled the product from 0 to \$300k ARR, owning features end-to-end across regulated domains including SOC 2 and HIPAA.

SKILLS

Languages: TypeScript, Python, SQL, Bash, YAML.

Full Stack: TypeScript end-to-end — React.js, Node.js, Nest.js, Express.js; event-driven architecture (AWS SQS, EventBridge), microservices, REST APIs.

Observability & Security: OpenTelemetry, Grafana (LGTM stack), Playwright; SOC 2, VAPT, PHI/PII scrubbing, server-side encryption.

Cloud & Infra: AWS (Lambda, API Gateway, EC2, S3, VPC, SQS, EventBridge), Terraform, Docker, GitLab CI/CD, GitHub Actions.

EXPERIENCE

MedmeHealth, Canada (remote) — *Intermediate Software Engineer (L4.5)*

DECEMBER 2025 - Present

- Leading the design of an event-driven RPA platform that automates pharmacy administrative workflows, for this Y Combinator-backed startup.
- Built vendor-agnostic observability across services with OpenTelemetry, shipping traces and metrics into the Grafana LGTM stack.
- Drove HIPAA compliance for the platform: access-logged S3 buckets, PHI/PII scrubbing from logs, and server-side encryption of data at rest.
- Led development of an LLM-based extractor that converts unstructured patient questionnaire answers into structured medication data.

HyperVerge, Bangalore — *SDE 2*

APRIL 2025 - DECEMBER 2025

- Designed a scalable, event-driven background-job system on AWS SQS and EventBridge — the architectural foundation for cron and asynchronous task scheduling across the HyperStart platform.
- Led the architecture for CRM integrations (Salesforce, HubSpot), automating data prefilling to streamline the client deal-closure pipeline.
- Cut infrastructure spend to a 10% MRR-to-server-cost ratio by profiling usage and reallocating resources over a 3-month period.
- Mentored junior engineers on feature design and established standardized code-review protocols to raise code quality.

HyperVerge, Bangalore — SDE 1

JULY 2023 - MARCH 2025

- Optimized contract-listing APIs to respond in **under 5 seconds across 15,000+ records** by restructuring responses and tuning queries against the query planner.
- Architected an LLM-based pipeline that extracts metadata from signed contracts — a core driver of the product's value proposition.
- Spearheaded **VAPT (Vulnerability Assessment & Penetration Testing)** and static code analysis for SOC 2 compliance, hardening API Gateways and Auto Scaling Groups.
- Designed and deployed a PDF-conversion microservice, benchmarking and operationalizing an open-source tool for production use.
- Built an end-to-end testing pipeline in GitLab CI using Playwright and Docker, ensuring system stability before deployments.
- Built a config-driven UI for stamp-paper procurement, reducing the effort to add new Article codes to a single JSON change.

HyperVerge, Bangalore — SDE Intern

AUGUST 2022 - JUNE 2023

- Built a Role-Based Access Control (RBAC) system, designing database schemas and APIs to manage resource access via user groups.
- Developed Google Drive and OneDrive integrations enabling seamless PDF ingestion for AI extraction workflows.

Samsung R&D Institute India, Bangalore — R&D Intern

DECEMBER 2021 - AUGUST 2022

- Built an unsupervised **Isolation Forest model** to detect anomalous user activity from IP, API URL, and MAC-address signals — directly applicable to financial-crime and fraud detection.
- Generated synthetic training datasets and deployed the inference endpoint with Python/Django on Heroku.

PROJECTS

EventForm, Event-driven form builder— *supports webhooks* eventform.murugappan.dev

Multi-tenant form builder with end-to-end webhook delivery, built to demonstrate production-grade distributed-systems patterns: transactional outbox over dual write, CDC via Debezium, idempotent Kafka consumer, row-level security, AES-256-GCM-encrypted secrets, and Cognito PKCE auth.

EDUCATION

Kumaraguru College of Technology, Coimbatore — Bachelor of Engineering in Computer Science

JUNE 2019 - APRIL 2023