

Darshan Kheni

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PROFESSIONAL SUMMARY

Software Engineer and M.S. Computer Science graduate (UT Arlington, May 2025) with hands-on experience designing, building, and shipping scalable microservices, distributed systems, high-performance REST/gRPC APIs, and LLM-powered production systems in Java (Spring Boot), GoLang, Python, and C# (.NET Core). Applied AI experience spans AI agents and agentic workflows, Retrieval-Augmented Generation (RAG) pipelines, multi-model LLM routing with circuit-breaker fallback, and LLM API integration (Anthropic Claude, OpenAI) on AWS, Docker, and Kubernetes - leveraging AI-assisted development tools (Claude Code, OpenAI Codex) to ship resilient, observable, high-availability systems in Agile teams.

EDUCATION

Master of Science in Computer Science — University of Texas at Arlington

USA

Aug 2023 - May 2025

Bachelor of Science in Computer Engg. — P P Savani University, Surat

India

Jun 2019 - May 2023

TECHNICAL SKILLS

Languages	Java (21), GoLang (1.22), Python (3.12), C# (10), TypeScript (5.4), JavaScript (ES2022), SQL, Rust, Kotlin, C
Frameworks	Spring Boot (3.2), .NET Core (8), gRPC, Flask, Django, ReactJS (18), Angular, Bootstrap
AI & LLM	Generative AI & LLM Integration (Anthropic Claude, OpenAI), RAG Pipelines, Multi-Model Routing, AI Agents, Agentic Workflows
Cloud & DevOps	AWS (EC2, S3, Lambda, ECS), Azure, Docker (24.0), Kubernetes (1.29), Terraform, CI/CD (GitHub Actions)
Databases	PostgreSQL (16), MSSQL, MySQL (8), MongoDB (7), Redis (7.2), SQLite, Supabase
Systems & Infra	Kafka (3.7), gRPC, WebSockets, Microservices, Event-Driven Architecture, REST APIs, Prometheus, Grafana
Security	OAuth 2.0, JWT (RFC 7519), RBAC, API Gateway Authentication, TLS/mTLS
Testing	JUnit (5), Selenium, Unit Testing, E2E Test Automation
Tools	Git, GitHub, Bitbucket, IntelliJ, VS Code, Jira, ClickUp, Confluence, Claude Code, OpenAI Codex, xAI Grok
Certifications	AWS Cloud Foundations (AWS Academy) Kubernetes Application Dev (LinkedIn)

PROFESSIONAL EXPERIENCE

33 Strategies LLC - AI Engineer

Dec 2025 - Apr 2026

ReactJS, TypeScript, Vite.js, Node.js, Supabase, Railway, REST APIs, LLM Integration

Austin, TX

- Built Plya, an AI-powered workout app, end-to-end for a client: a ReactJS and TypeScript (Vite.js) product on Supabase and Railway that ingests short-form fitness video (Instagram Reels, YouTube Shorts, TikTok) and turns it into personalized workout feeds.
- Integrated LLM APIs from the TypeScript/Node layer to auto-tag ingested clips against user onboarding profiles (goals, fitness level, Q&A responses) and power an in-app AI coach agent, applying prompt engineering and iterative output evaluation for reliable tagging accuracy.
- Designed Supabase (PostgreSQL) schemas and REST APIs and managed Railway deployment workflows with CI/CD and staging/production environment management, monitoring releases end-to-end to keep client delivery fast and stable.

FTNSS Inc. - Software Development Engineer

Jun 2025 - Present

Node.js, TypeScript, PostgreSQL, Supabase, AWS (EC2, S3), Docker, Terraform, CI/CD

Austin, TX

- Architected backend services and RESTful APIs for a multi-tenant marketplace platform, designing normalized relational database schemas that support vendor onboarding, real-time booking workflows, and dynamic availability management across all web and mobile clients.
- Optimized PostgreSQL query performance using composite indexing strategies, row-level security policies, and Supabase real-time subscriptions, cutting average API response time by 45% and enabling sub-100ms booking updates for all concurrent platform users.
- Deployed production infrastructure on AWS using Terraform (IaC) with auto-scaling, load balancers, and blue-green deployments; built GitHub Actions CI/CD pipelines, Selenium end-to-end test automation, and peer code review practices, cutting release cycle time by 40%.

Acodesoft Technologies LLC - Software Development Engineer

Dec 2021 - Jun 2023

C# .NET Core, Java, Spring Boot, MSSQL, REST APIs, OAuth 2.0, JWT, AWS, Docker, Kubernetes

Surat, India

- Led migration of monolithic .NET services to Java Spring Boot microservices, containerized with Docker and orchestrated via Kubernetes on AWS, reducing system downtime by 35% and significantly improving deployment velocity and service reliability across the engineering team.
- Built high-throughput REST APIs in Spring Boot with JUnit unit tests, MSSQL query tuning, and index optimization, improving p95 query latency by 60%; implemented centralized OAuth 2.0 / JWT authentication with RBAC for secure inter-service communication.
- Deployed high-availability environments on AWS EC2 with Auto Scaling, ELB, and blue-green deployment pipelines, maintaining 99.9% uptime across production.

PROJECTS

Regent (AI Executive Assistant Platform) | Go, Next.js, TypeScript, Supabase, PostgreSQL, Redis, Stripe

- Built a production-grade SaaS platform replacing executive assistants with per-user AI agents: a Go backend orchestrating agentic workflows - 13-stage email processing (categorize, summarize, RAG-backed drafting), multi-model LLM routing with circuit-breaker fallback, and goroutine supervision with backoff recovery.
- Engineered 107-component Next.js frontend with 27 routes and 5 Zustand stores, real-time Supabase WebSocket subscriptions, 60 SQL migrations with compile-time RLS, AES-256-GCM encryption with key rotation, 4-tier Stripe billing (\$97-\$697/mo), and 16 scheduled cron jobs for nightly batch processing.

go-taskqueue (Distributed Task Queue) | Go, Kafka, gRPC, PostgreSQL, Redis, Docker, K8s

- Engineered a distributed task queue in Go with Kafka-backed delivery, gRPC API, exponential backoff retry, dead-letter queue, concurrent worker pool with graceful shutdown, Redis distributed locking for deduplication, and Prometheus metrics; deployed on Kubernetes with liveness probes and HPA.

FaceTrack (IoT Attendance) | Python, OpenCV, Raspberry Pi, MySQL, RFID

Oct 2022

- Built a real-time IoT attendance system using facial recognition (OpenCV) and RFID sensors on Raspberry Pi with automated MySQL logging, report generation, and a monitoring web dashboard that reduced manual tracking errors by 90% across the department.

LEADERSHIP & ACHIEVEMENTS

- Served as Student Technical Assistant at UTA's MAE Department, resolving hardware, software, and networking issues for students, staff, and faculty.
- Conducted workshops on Java Spring Boot and scalable backend architecture at PPSU, training 50+ participants in microservices, REST API design, and cloud deployment; developed "TrustVote," a blockchain voting system recognized by faculty and selected for institutional presentation at P P Savani University.