Daxil Vala

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Summary

Backend software engineer with 4+ years building distributed systems across fintech, EV infrastructure, and healthcare AI; founding engineer at two startups (Elocity, Medlaunch), owning services from architecture through production.

Education

Northeastern University – (GPA: 3.76/4.00) Sep 2024 – Dec 2026
M.S in Computer Science *Boston, MA*

National Institute of Technology Karnataka Sep 2017 – May 2021
B.S in Electrical and Electronics Engineering *Surathkal, KA (India)*

Experience

Medlaunch Concepts May 2025 – Dec 2025
Founding Software Engineer (Co-op / Intern) *Clearwater, FL, USA*

- Led foundational technology stack decisions and delivered a production-ready MVP within 2 weeks by coordinating a 3-member backend engineering team from the initial idea stage.
- Worked on setting up DevOps architecture, leveraging Docker and deployed production workloads on AWS ECS with CI and CD pipelines for reliable horizontal scaling
- Developed CLARA, an internal AI agent using AWS Bedrock and LangChain to answer policy queries in real time through RAG across 13+ data sources
- Reduced hospital policy form generation time from hours to under 10 seconds by automating data aggregation across multiple entities
- Unified 15 certificate types under a single MongoDB schema by implementing a polymorphic data model, simplifying certificate management and reducing schema duplication
- Mentored 3 junior engineers in later stage and partnered with founders to translate business requirements into technical solutions, assess feasibility, and guide implementation.

Apollo.io May 2023 – Aug 2024
Senior Backend Engineer *Bengaluru, India*

- Took ownership of core features within the Deals Intelligence team, delivering production updates within 3 weeks of joining.
- Led integration of the deals with Apollo Plays, collaborating with 3 engineering teams to deliver the integration within a single sprint
- Updated 200M+ production records across a 400+ node MongoDB cluster with zero downtime by implementing horizontally scaled Sidekiq jobs and rolling batch updates
- Reduced average deal creation time by 78% (from 90 to 20 seconds) by implementing Elasticsearch-based fuzzy search and filtering to minimize manual field population
- Built the data aggregation foundation for a deal analytics dashboard, consolidating 20+ categorical and numerical data points to power 9 visualizations in a unified dashboard

Open Financial Technologies Sep 2022 – May 2023
Software Engineer *Bengaluru, India*

- Transitioned a legacy monolithic system to a scalable, maintainable microservices architecture by leveraging NestJS and TypeScript to modularize services
- Identified database bottlenecks in lending microservices by implementing New Relic observability and tracking p95/p99 latency metrics, enabling targeted optimizations that reduced API response times by 35–40 ms
- Developed and deployed a standalone loan integration service in Go for ICICI Bank, demonstrating the feasibility of adopting Go through a proof of concept and performance benchmarking for 10,000+ customers
- Improved API performance by normalizing a bloated PostgreSQL JSON column containing 18 fields into a structured relational schema, eliminating inefficient data access while preserving 100% of customer data.

Elocity May 2021 – Sep 2022
Founding Software Engineer *Bengaluru, India*

- Led the redesign of KPI analytics workflows, reducing dashboard load times by 65% by tried and failed with multiple tools, finally implementing scheduled Elasticsearch precomputed aggregation indexes to replace real-time in-memory computations
- Owned end-to-end development and deployment of a Python-Flask service for parallel EV charging within grid limits, implementing 3 custom scheduling algorithms and WebSocket-based real-time charger updates
- Built and managed Kafka topics/consumers for asynchronous charger–CPMS communication, ingesting OCPP telemetry into Elasticsearch for real-time fleet monitoring and validating integrations with an OCPP simulator
- Revamped the backend to support multi-tenancy and white-labeling, scaling customer adoption from 1 to 5+ within 2 months.

Technical Skills

Python, TypeScript/JavaScript, Ruby, Go, Java, SQL, NestJS, Flask, Ruby on Rails, Microservices, REST APIs, Kafka, RabbitMQ, Sidekiq, WebSockets, PostgreSQL, MongoDB, Elasticsearch, Redis, AWS, Docker, Kubernetes, CI/CD, GitHub Actions, LangChain, RAG, Vector Databases, Hugging Face, PyTorch, QLoRA, RSpec, OCPP, OCPI, Automated Testing, Agile Methodologies