

Vijayaraagavan S

Full Stack Developer · Salem, India

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SUMMARY

Full stack developer with 4+ years building web products with React, TypeScript, Elixir/Phoenix, GraphQL and Node.js on PostgreSQL. At Userflow, works across the backend services, the React app and its embeddable SDK, and shipped SmartFlow, an LLM product-tour generator, end to end.

EXPERIENCE

Userflow

SDE 2

Jun 2024 – Present
Coimbatore, India

- Build features across the stack, from Elixir/Phoenix and GraphQL services to the React frontends of the Userflow app and its embeddable end-user SDK
- Built end-user features in the embeddable React SDK that runs inside customers' web apps, including confetti, reactions and comments
- Built SmartFlow end to end, an LLM feature that turns a recorded browser session into a publishable product tour, with every generated flow validated through the production changeset so an invalid tour cannot ship
- Created 18 of the 43 tools in Userflow's MCP server and own its OAuth 2.1 authorization layer: dynamic client registration, RFC 9728 metadata and per-scope RBAC
- Built LLM cost and abuse controls: company-level spend caps, per-feature hourly quotas, timeout cancellation, and token accounting that attributes reasoning and cached-token spend
- Built the evaluation programme for an LLM onboarding-planning pipeline: golden set, budget-capped LLM-as-judge, weighted scoring rubric, and a regression suite for ~20 provider failure modes

Tech: React, TypeScript, Elixir, Phoenix, GraphQL, PostgreSQL, ClickHouse, Oban, OpenAI API, Gemini, MCP, Python

Ardhika Software Technologies

Software Engineer

May 2022 – Jun 2024
Chennai, India

- Built an offline-first restaurant POS end to end (Elixir/Phoenix backend, Vue.js frontend) serving 1000+ concurrent users
- Implemented real-time sync via WebSockets handling 1000+ transactions/hour at 99.9% reliability
- Designed microservice architecture and optimized PostgreSQL schemas, cutting query response time by 20%
- Developed custom Android plugins (Java) bridging the web app with native hardware (printers, scanners)

Tech: React, Vue.js, Node.js, Elixir, Phoenix, PostgreSQL, WebSockets, Golang, Java, Docker, Jenkins

SKILLS

Frontend	React, TypeScript, JavaScript, Vue.js
Backend	Elixir, Phoenix, Node.js, Fastify, GraphQL, Ecto ORM, Oban, Golang
Databases	PostgreSQL, ClickHouse, MongoDB, Firebase
AI / LLM	LLM pipelines, Structured outputs, Tool calling / MCP, Evals & LLM-as-judge, RAG
DevOps & Cloud	Docker, Kubernetes, Terraform, CircleCI, Jenkins, Cloudflare, Linux
Other languages	Python, Java, Dart

PROJECTS

Multi-Tenant Workspace Apps *personal*

Private multi-tenant platform where organizations build and run apps in workspaces, with an AI agent that builds apps in place. One of its core engineers, on the tenant data, orchestration and infrastructure layers.

- Built unidb, a Go service designed to serve thousands of tenant SQLite databases per node over the Hrana (libSQL) protocol, with WAL shipping to object storage, sync/async replication and per-database CPU, size and rate quotas
- Built Setpoint, a Go reconciliation engine that continuously converges per-tenant resources (databases, migrations, sandbox templates) to their declared state
- Built the infrastructure as code: Nomad, Consul and Traefik on Azure with OpenTofu, content-addressed images and Woodpecker CI, plus microVM sandboxes for agent builds

Tech: Go, TypeScript, Node.js, Fastify, React, SQLite, PostgreSQL, Nomad, Consul, OpenTofu, Azure

Quic Switch (open source soon) *personal*

Local-first macOS desktop app that keeps project context for developers and AI coding agents, so switching projects loses nothing. Rust core with a CLI and an MCP server, a Tauri desktop app in TypeScript, and agent-defined Applets whose code runs sandboxed (QuickJS on wasmtime) behind per-action grants.

Tech: Rust, Tauri, TypeScript, Preact, MCP, WebAssembly

Computer Vision Pipeline *personal*

Automated image segmentation with SAM2 and YOLO to produce ML training data. Processed 10k+ images at 85% detection accuracy, cutting manual labeling by 80%.

Tech: Python, SAM2, YOLO, TensorFlow

EDUCATION

Bachelor of Engineering, Electrical and Electronics Engineering

May 2017 – April 2021

College of Engineering Guindy, Anna University, Chennai

Final grade: 7.6/10

LANGUAGES

English · Fluent in speaking and writing

Tamil · Native proficiency