

ARAN SHAYAN

Full Stack Engineer · React and TypeScript in front, services and APIs behind · enterprise and banking platforms

hi@aranshayan.com

aranshayan.com

github.com/aranshayan

linkedin.com/in/aran-shayan

t.me/aranshayan

SUMMARY

Full stack engineer with six years of experience: two on backend services, APIs and databases, four leading the frontend of enterprise and banking platforms. Designs OpenAPI contracts, authorization and multi tenant data models, builds the React, Next.js and TypeScript interfaces on top, and works with PostgreSQL, Docker and Kubernetes.

CORE STRENGTHS

Platform and API design: OpenAPI contracts, relationship based authorization, multi tenancy and effective dated data models.

Security minded: Permissions enforced on the server, tenant isolation, careful secret handling, and reviews that catch risks like SQL injection early.

Data heavy interfaces: Tables, dashboards, editors and visual builders that stay fast with large datasets, live data and complex forms.

Frontend architecture: Design systems, state and data fetching patterns, and codebases that stay readable as teams and products grow.

Systems and tooling: Cross platform desktop software in Python, Rust and Go, and the networking knowledge to debug what sits in between.

Applied machine learning: Meta-learning for cold-start recommendation, from data preparation to a rigorous offline evaluation.

EXPERIENCE

Senior Frontend Engineer, a banking and enterprise software company

2022 to Present

- Led the frontend of an API integration platform for banks and telecom operators, including a drag and connect builder for APIs without code
- Designed an authorization control plane and the tenancy and organisation services behind an ERP, from data model to OpenAPI contract
- Built liquidity supervision and settlement reporting interfaces running in production at a national bank
- Found a SQL injection risk in the platform's database nodes and specified the fix across six database engines
- Created the shared design system and kept data heavy screens fast with virtualisation and careful state

Backend Developer, a software company

2020 to 2022

- Built REST APIs and services behind web and mobile products
- Designed database schemas and tuned slow queries
- Set up servers, networks and deployments, and debugged them when they broke

Independent Developer, freelance and own products

alongside

- Designed and built company websites and online stores end to end, from first sketch to launch and support
- Built Alita, a cross platform, local first system manager for developers in Python, Rust and Go

SELECTED PROJECTS

API Platform: Low-code API management for banks and telecom operators: visual flow builder, OAuth2 and JWT, cloud or on premise deployment, Prometheus and Grafana monitoring.

Alita: Cross platform, local first system manager in Python, Rust and Go: time and traffic tracking, system cleanup, Jira, Git delivery checks and an API workspace.

Access Control: Control plane for relationship based authorization: versioned schemas, a test harness with proof traces, tenant isolation backed by row level security.

Branch Liquidity: Daily branch cash positions and inter branch transfers, reconciled and reported to the central bank; in production at a national bank.

Websites and Stores: Company websites and online stores designed and built end to end: fast on mobile, found in search and edited by their owners.

Cold-Start Recommender: Meta-learning recommender for new users: +21.7% NDCG@10 and +26.3% Recall@10 over a graph neural network baseline, 3.5x faster training than MAML.

SKILLS

Backend and platform	Node.js, Python, Java, Rust, Go, REST and OpenAPI, PostgreSQL, SQLite, SpiceDB, Keycloak, Kafka, Docker, Kubernetes, Networking
Frontend	TypeScript, React, Next.js, HTML and CSS, Tailwind CSS
Practices	State and data fetching, Testing, Accessibility (WCAG), Performance (Core Web Vitals), Design systems

EDUCATION

MSc Software Engineering

Thesis: a meta-learning recommender for the cold-start problem; +21.7% NDCG@10 over a graph neural network baseline

BSc Computer Engineering

LANGUAGES

English, Fluent