

# Akshaykumar Lilani

## Senior Software Engineer (Frontend)

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### Summary

**Senior Frontend Engineer** with **3+ years of corporate experience** specializing in **React**. Holds a **B.E. in Information Technology**. **Built the MCine Admin Panel from scratch**, architecting a comprehensive system that manages multi-location theatre operations and role-based access control. Delivered critical performance improvements, **reducing page load times by 98%** (60s to <2s) via lazy loading strategies and supporting a platform with **15,000+ users** processing **MUR 96M+** in annual sales.

### Experience

- Kognitos – Remote / Contract  
*Senior Frontend Engineer – Sep 2025 - Nov 2025*
  - To scale for enterprise adoption, the platform required a robust security infrastructure (RBAC) and granular usage visibility (Analytics) that the existing MVP lacked, all within a tight 2-month deadline.
  - Delivered **50+ merged PRs** and **+31,003 lines of code**, directly enabling the onboarding of large-scale clients via granular permission management and unlocking revenue transparency through data visualization.
  - As the **sole Frontend owner** across two parallel cross-functional teams, I drove the end-to-end architecture, implementation, and E2E testing for both modules.
  - **Tech Stack:** React, TypeScript, Apollo GraphQL, Recharts, Cypress, and Jest.
- Teson LLP – Thane, Maharashtra  
*Senior Software Engineer – Sep 2022 - Jul 2025*
  - While contributions spanned **15+ Full-Stack and Frontend projects**, the following selected works demonstrate specific expertise in System Architecture and Performance Engineering:
  - Project: MCine (Enterprise Cinema Management Platform)
    - Built a centralized "Mission Control" (Admin Suite) to enable theatre staff to manage complex, multi-location operations – from movie scheduling and theatre configuration to financial reporting.
    - The Admin Suite now serves as the operational backbone for the entire cinema network, managing inventory for **15,000+ consumer users** and enabling the processing of **~MUR 109 Million** in annual sales.
    - Engineered a **Drag-and-Drop Seat Layout Editor** and a **Timeline-based Show Scheduler** in React, solving complex state management challenges to allow dynamic theatre reconfiguration without downtime.
    - Designed and implemented a deep **Role-Based Access Control (RBAC)** system, allowing administrators to configure granular permissions "based on permissions" for different staff levels across local and central servers.
    - Developed a high-performance **Analytics Dashboard** visualizing 20+ financial reports (Heatmaps, Occupancy, Sales) using **Ant Design Charts**, transforming millions of data points into actionable operational insights.
    - **Tech Stack:** React, Typescript, Redux Toolkit, Ant Design, Ant Design Charts, WebSockets, Bootstrap, Python / Django Rest Framework, nginx, Docker, pm2, Celery, Redis

- **Project: Bodhitree (LMS for IIT Bombay)**
  - Addressed the critical need for a streamlined and intuitive student learning interface, as the legacy system suffered from rigid navigation and poor layout structure, hindering seamless content consumption for university students.
  - Delivered a highly optimized "Multimedia Book" experience that reduced the main JavaScript bundle size by **~25% (1.01 MB to 757 KB)**, significantly improving initial page load times and execution speed.
  - Architected the new desktop-first student navigation skeleton and content consumption flow, implementing complex routing strategies to ensure smooth state transitions between videos, documents, and quizzes.
  - Led and mentored a cross-functional team of **3 IITB interns and 2 junior engineers**, creating detailed task breakdowns and conducting code reviews to successfully deliver the overhauled Student Dashboard and Course Play interfaces.
  - **Tech Stack:** React, Redux, Craco, ESLint, Husky, nginx, Docker, pm2
- Stocks & Codes – Remote / Freelancing  
*Self-Employed (Intraday Equities Trader & Pinescript Developer) – Aug 2019 - Aug 2022*
  - **Open Source:** Published a popular 'Time and Sales Window' indicator on Trading View, receiving over **900 community boosts** for its utility.
- Accenture – Navi Mumbai, Maharashtra  
*Application Developer Associate – Oct 2018 - Aug 2019*
  - **Data Management & Reporting:** Utilized SQL and SQL-Server Reporting Services (SSRS) to create client-facing performance dashboards and reports, translating complex data into user-friendly visualizations.

## Key Skills

- **Frontend:** React, Next.js, Redux, TypeScript, JavaScript (ES6+), HTML5, CSS3, SCSS/Sass, Tailwind CSS, Ant Design, Material-UI, Bootstrap, shadcn/ui, Recharts, Figma, Ant Design Charts
- **Backend:** Python (Django & Django REST Framework), Node.js (Express.js), Celery
- **Databases:** PostgreSQL, MongoDB, Microsoft SQL Server, Redis
- **DevOps:** Docker, Git, Nginx, AWS S3, Sentry, Jira, CircleCI, Github Actions
- **AI Tools:** Claude Code, Cursor, Antigravity, Gemini CLI, Codex CLI

## Projects

- **RAG Architecture Prototype:** NotebookLM Clone
  - **Technical Initiative:** Designed and built a functional prototype to deconstruct the core mechanics of Retrieval-Augmented Generation (RAG) and semantic search algorithms.
  - **Implementation:** Engineered a full-stack flow (Next.js + Flask) to handle document ingestion, leveraging **LlamaParse** and **Chroma DB** to experiment with layout-preserving parsing and vector storage strategies.
  - **Key Learnings:** Gained hands-on proficiency in managing **OpenAI embedding pipelines** and optimizing context retrieval windows for accurate query responses on unstructured PDF data.

## Education

- Vivekananda Education Society's Institute of Technology (University of Mumbai) – Mumbai, Maharashtra  
*Bachelor of Engineering in Information Technology – Aug 2014 - May 2018*