

# Akshaykumar Lilani

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## EXPERIENCE

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### Teson

Thane, Maharashtra

Senior Software Engineer

Sep 2022 – Present

#### Senior Software Engineer (Mar 2024 – Present)

##### \* Project: Enterprise Cinema Management Platform

- Led the frontend architecture for a platform serving 15,000+ users and processing over 109 Million MUR in sales annually across its online and Point-of-Sale (POS) systems.
- Engineered a full-featured gift card and wallet payment system from scratch, handling the entire lifecycle from creation and redemption to integration with the final checkout flow.
- Architected and implemented a granular Role-Based Access Control (RBAC) system for both frontend and backend services, ensuring secure access to features and data.
- Drove a critical performance initiative by optimizing backend payment APIs, resulting in a 70% drop in order creation time and reducing payment confirmation latency from 1107ms to 184ms.
- Designed and built a comprehensive reporting suite with over 20 distinct reports, including Sales Reconciliation, Occupancy Heatmaps, and Theatre Performance, complete with PDF/XLSX export functionality.
- Integrated Sentry for real-time error tracking and developed automated scripts for nightly server restarts and maintenance, improving overall system stability and reliability.

##### \* Project: Internal Analytics & Cost-Saving Platform

- Spearheaded a major performance overhaul of the platform's backend APIs, slashing key data retrieval times from over 3 minutes to under 8 seconds, which directly improved frontend responsiveness for over 500 users.
- Re-architected the platform to support multi-tenancy, enabling its adoption by a second organization and significantly cutting Salesforce licensing costs by migrating view-only users to this internal tool.
- Optimized a Python-based RPA script, reducing the time to fetch 4,000+ daily records from Salesforce APIs from 40+ minutes to under 8 minutes.

##### \* Project: Multi-Tenant Insurance Brokerage Platform

- Architected and implemented the foundational frontend for a multi-tenant SaaS insurance platform using Next.js, establishing a scalable and maintainable codebase from the ground up.
- Led the end-to-end development of the core 'Placings' and 'Cases' modules, translating complex insurance brokerage requirements into functional and intuitive user interfaces.
- Engineered a robust state management solution using Redux Toolkit and persisted state with IndexedDB to handle complex, offline-capable forms.

#### Software Engineer (Sep 2022 – Mar 2024)

##### \* Project: University E-Learning Platform

- Led a comprehensive modernization of the frontend codebase by upgrading Node.js (v14 to v18), migrating the build system from Webpack to Craco, and introducing code-splitting, which resulted in a 25% reduction in the main JS bundle size.
- Established higher code quality standards by implementing ESLint and Husky with custom rules (e.g., enforcing loglevel over console.log), improving long-term code maintainability and preventing logs from reaching production.
- Resolved critical frontend bugs during live, timed online examinations, ensuring a stable and reliable experience for students under high-stress conditions.
- Enhanced offline accessibility and loading performance by improving the service worker implementation with a Network First caching strategy.

##### \* Project: Real Estate Marketplace

- Drove a frontend performance initiative that reduced page load time by 98% (from 60s to under 2s) through strategic lazy loading and image optimization (WebP).
- Implemented an Elasticsearch integration for the property search functionality, significantly improving search speed and relevance for users.

- Developed user-facing features from scratch, including an interactive EMI calculator and a "user view history" feature to enhance user engagement.

\* **Project: Client Marketing & Portfolio Websites**

- Developed an immersive marketing website for a VR horror game, implementing interactive animations and an atmospheric UI to drive user engagement on the Oculus platform.
- Built a fully responsive portfolio website for an architectural firm, integrating Google Maps and Google Sheets APIs for interactive location display and seamless lead capture.
- Created a corporate landing page for a parent technology company (Pastelcube) to establish its brand identity, featuring a visually engaging UI with Particle.js.

● **Self-Employed**

Ulhasnagar, Maharashtra

*Intraday Equities Trader & PineScript Developer*

*Aug 2019 – Aug 2022*

- **FinTech Tooling:** Developed custom data visualization tools and indicators for market analysis using JavaScript and PineScript, enhancing the user interface and data interpretation for trading strategies.
- **Open Source:** Published a popular 'Time and Sales Window' indicator on TradingView, receiving over 600 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

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- **Frontend:** React, Next.js, Redux, TypeScript, JavaScript (ES6+), HTML5, CSS3, SCSS/Sass, Tailwind CSS, Ant Design, Material-UI, Bootstrap
- **Performance:** Web Performance Optimization, Lazy Loading, Code Splitting, Lighthouse
- **Backend:** Python (Django REST Framework), Node.js (Express.js)
- **DevOps & Tools:** Docker, Git, Nginx, AWS S3, Sentry, Jira, Figma

EDUCATION

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● **Vivekananda Education Society's Institute of Technology**

Mumbai, Maharashtra

*Bachelor of Engineering in Information Technology; CGPA: 7.78*

*Aug 2014 – May 2018*