Akshaykumar Lilani

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EXPERIENCE

- **Teson**   Thane, Maharashtra
  Senior Software Engineer   *Sep 2022 – July 2025*

  - **Senior Software Engineer** *(Mar 2024 – July 2025)*
    - **Project: Enterprise Cinema Management Platform**
      - Built the admin interface from scratch — used for setting up theatres, managing users and roles, handling shows, viewing reports and audit logs, pushing remote deployments to local servers, and managing shared platform data.
      - Built a complete gift card and wallet payment system from the ground up, taking care of everything from making the cards and redeeming them to adding them to the final checkout flow.
      - Designed and built a detailed Role-Based Access Control (RBAC) system for both frontend and backend services to make sure that features and data are only accessible to the right people.
      - Optimized backend payment APIs, which helped cut order creation time by around 70% (1107ms to just 184ms).
      - Designed and developed a reporting suite with 20+ reports like Sales Reconciliation, Occupancy Heatmaps, and Theatre Performance, along with PDF and Excel export options.
      - Set up Sentry for real-time error tracking and wrote scripts to automate nightly server restarts and maintenance, which helped improve system stability and reliability.
      - **Technologies:** React, Python (Django REST Framework), Celery, Redis, Sentry, Nginx, PostgreSQL, Ant Design Framework, Redux Toolkit, React Bootstrap, Websockets, pm2
    - **Project: Internal Analytics & Cost-Saving Platform**
      - Led a big performance revamp of backend APIs — brought down key data fetch times from 3+ minutes to under 8 seconds, which made the frontend much faster for 500+ users.
      - Reworked the platform to support multiple tenants, which made it possible for a second team to use it and also helped save on Salesforce licensing by moving view-only users to this 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.
      - **Technologies:** React, Python (Django REST Framework), Celery, Redis, Nginx, PostgreSQL, Microsoft SQL Server, Python RPA, Redux, React Bootstrap, pm2
    - **Project: Multi-Tenant Insurance Brokerage Platform**
      - Built the main frontend for a multi-tenant insurance broker platform using Next.js — started from scratch and made sure the codebase stayed clean, scalable, and maintainable.
      - Led the full stack development of the core 'Placings' and 'Cases' modules, building both intuitive UIs and robust backend APIs.
      - Set up state management using Redux Toolkit along with IndexedDB to make sure large, complex forms could save data offline without breaking.
      - **Technologies:** Next.js, Tailwindcss, shadcn/ui, Redux Toolkit, Redux persist with IndexedDB, Django Rest Framework
  - **Software Engineer** *(Sep 2022 – Mar 2024)*
    - **Project: University E-Learning Platform**
      - Upgraded the frontend stack by moving from Node.js v14 to v18 and switching the build system from Webpack to Craco. Also added code-splitting, which cut down the main JS bundle size by around 25%.
      - Set up ESLint and Husky with custom rules (like replacing console.log with loglevel) to keep code quality high and avoid sending logs to production.
      - Improved offline access and page loading by tweaking the service worker to use a Network First caching strategy.
      - **Technologies:** React, Python (Django REST Framework), Celery, Redis, Sentry, Nginx, PostgreSQL, Redux Toolkit, React Bootstrap
    - **Project: Real Estate Marketplace**

· Worked on improving frontend performance — brought page load time down from 60 seconds to under 2 seconds (a 98% improvement) by lazy-loading assets and optimizing images with WebP.
· Integrated Elasticsearch into the property search flow, which made searches faster and results more relevant for users.
· Built several user-facing features from scratch, like an interactive EMI calculator and a "view history" section to help improve engagement.
Technologies: Node.js (express.js), ElasticSearch, EJS, MongoDB

∗ **Project: Client Marketing & Portfolio Websites**
· Built a marketing site for a VR horror game with spooky UI and interactive animations to boost engagement on the Oculus platform.
· Created a responsive portfolio site for an architecture firm — added Google Maps for showing locations and used Google Sheets API to capture leads smoothly.
· Designed a landing page for a parent tech company to showcase its brand — used Particle.js for a visually dynamic UI.
Technologies: React, Particle.js, Redux, Google Sheet API, Bootstrap, Tailwind

- **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.

PROJECTS

- **AI-Powered RAG Document Assistant: NotebookLM Clone** - link
  ○ Created a web app (Flask + Next.js) that enables users to upload PDFs, pose AI queries, and receive responses that include citations to their sources using Retrieval-Augmented Generation (RAG).
  ○ LlamaParse, Chroma DB, and OpenAI embeddings were used to process documents, store vectors, and facilitate precise semantic search.
  ○ Docker deployment allows for simple setup and public access to live demos.

- **Time and Sales Window Indicator | TradingView (Open Source)** - link
  ○ Developed and published a popular open-source 'Time and Sales Window' indicator on the TradingView platform.
  ○ Engineered the tool using PineScript to provide real-time data visualization for market analysis, enhancing trading strategies.
  ○ Achieved significant community adoption, receiving over 850 community boosts for its utility and impact on traders.

KEY SKILLS

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

EDUCATION

- **Vivekananda Education Society's Institute of Technology**   Mumbai, Maharashtra
  Bachelor of Engineering in Information Technology; CGPA: 7.78   Aug 2014 – May 2018