LOKESH PALANI

Frontend Developer | Angular | React

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LANGUAGES

Javascript | Typescript | Angular | React JS | PHP | SQL | CSS | HTML | Node js | Ionic | swift | Rxjs | Redux/NgRx | Tailwind

UI/UX & TOOLS

Figma | Adobe XD | Sketch wireframe | Design Systems

AI/ML

LangChain | Vector DBs | RAG/Embeddings | Transformers

CERTIFICATIONS

- Prompt Engineering ude.my/UC-2169a8f6-95ba-44a4-bf88-34b00d66ae0f
- Angular Advanced d1b5659361b6
- Python Basic 21ac1df7604d
- SQL Advanced 2c2389e4227f

EDUCATION

B.Tech (Information Technology)
SITAMS, Chittoor — 2015

PROFILE

I am a Frontend Developer with strong expertise in Angular, React, and Ionic, experienced in building scalable applications from scratch and modernizing legacy systems. Over the years, I have worked across diverse industries including e-commerce, healthcare, sports, and education, delivering solutions that improve usability and business workflows.

In my current role as a Technical Lead, I have been responsible for designing frontend architectures, guiding teams, and ensuring best practices in coding and project delivery. I enjoy taking ownership of projects end-to-end from setting up boilerplates and defining structure, to mentoring developers and collaborating with cross-functional teams.

I am passionate about creating clean, responsive, and user-friendly interfaces, while staying up to date with modern frontend practices and tools. My experience spans enterprise applications, mobile apps, and dashboards, with a strong focus on maintainability, reusability, and performance.

EXPERIENCE

2022 NOW

HCL TECHNOLOGIES

Client: HCL

Project : PDLC (Product Development Life Cycle) Web Application

Duration: July 2025 - Present

Domain : B2B PDLC

Tech Stack: Angular 18, Azure AD/MSAL, Angular Material, PrimeNG, Bootstrap 5, Chart.js, PDFMake, RxJS, Protractor, Karma/Jasmine

Description: Led the development of an enterprise-grade web application to manage service requests, work orders, and project workflows. The system integrates with Azure Active Directory for secure SSO authentication and implements role-based access control for fine-grained authorization. Designed and developed modular, lazy-loaded Angular architecture with reusable components, reactive forms, and shared services for API communication. Built dashboards and reporting modules with Chart.js for KPI visualization, PDF/print utilities, and resource planning tools.

Key Contributions:

- Designed frontend architecture and boilerplate setup for scalable Angular 18 application.
- Implemented JWT interceptors, guards, and AES encryption for secure API communication.
- Developed core business modules including Service Request Management, Work Order Lifecycle, Delivery Forecast, Feedback System, and Admin Panel.
- Built responsive UIs using Angular Material, PrimeNG, and Bootstrap, with optimized lazy-loading.
- Integrated unit and e2e testing (Karma/Jasmine, Protractor) and enforced linting/code quality.

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PROJECT **Client:** FIFA
HCL **Project :** Fifa inventory system
Duration: Jan 2025 - June 2025
Domain : B2B Sports, e-com

Tech Stack: Angular 18, TypeScript, C# .NET, SQL Server, REST API

Description:
Migrated FIFA's legacy Windows-based inventory management system into a modern Angular web platform, enabling accessibility across browsers and devices. Re-architected the application to support real-time updates, barcode scanning, and automated reporting. Designed and implemented a centralized dashboard with role-based access control (RBAC) to handle multi-location inventory management. Integrated RESTful APIs for data synchronization and connected third-party logistics providers for seamless order fulfillment.

Key Contributions:
- Led the end-to-end migration from a desktop application to a scalable Angular 18 web solution.
- Rebuilt inventory tracking modules with real-time data flow and barcode scanning support.
- Designed and developed a centralized dashboard for reporting and multi-location inventory visibility.
- Implemented role-based access control ensuring secure access for different user groups.
- Developed RESTful API integrations for synchronization with backend services and third-party logistics systems.

PROJECT **Client:** Abbott laboratories
HCL **Project :** Brooklyn II
Duration: Dec 2023 - Dec 2024
Domain : Medical

T**ech Stack:** Angular 17, NgRx, D3.js, Highcharts, Jasmine/Karma

Description:
Developed an Angular 17 component library and built interactive dashboards for large-scale patient data visualization. Implemented advanced analytics and charting using D3.js and Highcharts to provide doctors and stakeholders with clear insights from complex healthcare datasets. Designed WCAG 2.1 AA-compliant interfaces with thorough accessibility testing and documentation. Optimized application performance with lazy loading, virtual scrolling, and intelligent caching strategies to ensure scalability and smooth user experience.

Key Contributions:
- Developed reusable component library to accelerate feature delivery across the platform.
- Implemented real-time analytics dashboards for patient and medical IoT data.
- Built accessible and inclusive UIs with WCAG 2.1 AA compliance.
- Authored comprehensive technical documentation to support long-term maintainability.
- Improved application performance and responsiveness through caching, lazy loading, and virtual scrolling.

PROJECT **Client:** Abbott laboratories
HCL **Project :** NMD - Dashboard
Duration: April 2023 - Dec 2023
Domain : B2B ERP Dashboard

Tech Stack: React, Material-UI, XLSJS, JavaScript

Description:
Developed a project management and reporting platform that replaced manual Excel-based workflows. The system used XLSJS as a data source, effectively treating Excel files as a database for storing and retrieving project-related details. The platform provided clients with resource allocation reports, budget tracking, project usage summaries, skills mapping of deployed resources, and overall project performance insights.

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Key Contributions:

- Designed and implemented a React + Material-UI frontend for a clean, responsive user experience.
- Built custom data ingestion and parsing logic using XLSJS to treat Excel data as the backend source.
- Developed interactive reporting modules including resource allocation, budget utilization, and project usage.
- Enabled skill and resource tracking to give visibility into workforce distribution across projects.
- Migrated the client from manual Excel reporting to a centralized, web-based project intelligence platform.

PROJECT
HCL

Client: Abbott laboratories
Project : Ensite-x - EP System (Electrophysiology Mapping Platform)
Duration: Apr 2022 - Apr 2024
Domain : Medical

Tech Stack (Frontend/Software): Angular / React (UI prototyping), Data Visualization libraries, Medical Device Integration APIs

Description:
Worked on the EnSite X EP System, Abbott's next-generation cardiac electrophysiology mapping platform designed to support catheter-based cardiac procedures. The project focused on delivering a modern graphical interface and workflow tools for physicians, combining impedance and magnetic mapping modes to enable precise, real-time cardiac signal visualization.

Key Contributions:

- Designed and implemented frontend components for interactive dashboards, mapping workflows, and catheter navigation displays.
- Collaborated on data visualization tools that allowed physicians to view and analyze cardiac activation sequences, propagation maps, and real-time electrophysiological signals.
- Contributed to UI/UX improvements ensuring efficient, consistent, and reproducible workflows during critical cardiac procedures.
- Integrated sensor-enabled catheter data into the application for accurate 3D visualization of cardiac anatomy.
- Supported development of noise-reduction and compensation features (e.g., patient movement detection, respiration compensation, magnetic interference handling) to ensure reliability of mapped data.

2017
2019

Jumpking International LLP
Fullstack developer

Tech Stack: Angular, React, Node.js, PHP, MySQL, Redis, AWS, Stripe, Razorpay

Description:
Led the design and development of web, mobile, and hybrid platforms for B2C websites and B2B franchise portals, including FlyDining.com, Campking.com, JumpkingIndia.com, and Nokomoto.com. Architected scalable booking and payment systems with integrations to Stripe and Razorpay, ensuring PCI DSS-compliant secure transactions. Built multi-tenant solutions supporting both direct consumer engagement and franchise management workflows.

Key Contributions:

- Architected scalable systems with Node.js, PHP, and MySQL, incorporating Redis-based caching for database performance optimization.
- Implemented secure payment gateways with Stripe and Razorpay for seamless online transactions.
- Developed e-commerce and booking platforms tailored for both consumer and franchise use cases.
- Built automated deployment pipelines using Jenkins, Docker, and AWS for streamlined releases.
- Ensured cross-platform responsiveness and mobile-first user experience across Angular and React applications.

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2015 Codehub software solutions
2017 Fullstack developer

Tech Stack: AngularJS, PHP, MySQL, jQuery, Bootstrap, Ionic, React, REST API

Description:
Developed and delivered custom web and mobile applications across diverse business domains, including eschoolz.in (School Management ERP), Milk Management System, selforder.in (Quick Commerce), and shopla.in (E-commerce). Built responsive, cross-browser compatible interfaces with mobile-first design principles and implemented robust backend systems with PHP and MySQL. Designed and integrated RESTful APIs for smooth client–server communication and optimized database performance through efficient query design and data modeling.

Key Contributions:
- Built end-to-end ERP and commerce platforms with PHP/MySQL backends and AngularJS/Bootstrap frontends.
- Developed mobile apps using Ionic and self-ordering platform with React for real-time ordering workflows.
- Implemented RESTful APIs to connect web, mobile, and hybrid applications with backend services.
- Optimized database schemas and query performance for scalability across multiple projects.
- Mentored junior developers, introduced Git workflows, code review practices, and coding standards.

OWN PROJECTS

AI assistant

Tech Stack: Swift, SwiftUI, Python, Whisper, CoreML, Vector DB

Description:
Developed a macOS native desktop assistant with real-time voice transcription and intelligent response generation powered by OpenAI Whisper. Implemented a Retrieval-Augmented Generation (RAG) architecture with vector embeddings to enable contextual knowledge search and retrieval. Extended the assistant with multi-modal AI features, including vision processing, OCR, and screenshot analysis workflows. Designed a secure vector storage system with session management, caching, and optimized retrieval pipelines to ensure high performance.

Key Contributions:
- Built Swift/SwiftUI native interface integrated with Python backend for AI workflows.
- Implemented real-time voice transcription with Whisper for continuous, low-latency interaction.
- Designed and integrated RAG-based contextual Q&A system with vector search.
- Developed OCR and vision processing modules for screenshot understanding and UI element analysis.
- Architected a secure and optimized vector storage system with session management and smart caching.

Multi-Agent Orchestration System - AI Development Platform

Tech Stack: Swift, SwiftUI, Ollama, Vision APIs, Multi-Agent Framework

Description:
Designed and developed a multi-agent orchestration system that coordinated specialized AI agents for coding, vision, and task automation. Built a service layer supporting Ollama and OpenAI with fallback strategies for reliability. Implemented context-aware routing to dynamically select the best agent per task, enabling adaptive performance. Integrated Vision AI and OCR workflows with real-time UI updates, error recovery, and streaming response handlers.

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Key Contributions:

- Built Swift/SwiftUI native interface integrated with Python backend for AI workflows.
- Implemented real-time voice transcription with Whisper for continuous, low-latency interaction.
- Designed and integrated RAG-based contextual Q&A system with vector search.
- Developed OCR and vision processing modules for screenshot understanding and UI element analysis.
- Architected a secure and optimized vector storage system with session management and smart caching.

Vector Embedding Generator — ML Processing Pipeline

Tech Stack: Python, Transformers, BGE, Sentence Transformers

Description:
Developed a scalable vector generation pipeline leveraging BGE models and Sentence Transformers to support semantic search and retrieval workflows. Implemented a hybrid search approach that combined semantic embeddings with traditional TF-IDF for improved accuracy and flexibility. Built an intelligent caching system with hash-based deduplication and optimized storage management to ensure efficient resource utilization.

Key Contributions:

- Designed and deployed vector embedding services for semantic search and contextual retrieval.
- Implemented hybrid search pipeline blending modern embeddings with TF-IDF indexing.
- Developed caching and deduplication strategies to reduce redundant computations.
- Optimized storage management and retrieval speed for high-volume query processing.

Vector Embedding Generator — ML Processing Pipeline

Tech Stack: Next.js, TypeScript, Tailwind, Ollama, OpenAI

Description:
Developed an AI-powered resume optimization platform using local LLMs (Ollama) and cloud-based APIs to provide content enhancement and career-focused suggestions. Built an ATS-friendly formatting engine with keyword analysis and industry-specific optimization. Implemented a real-time preview system with responsive design and print-perfect CSS, ensuring consistent formatting across devices and export options.

Key Contributions:

- Created AI-driven content enhancement workflows for resume building and job alignment.
- Built ATS-compatible formatting system with keyword optimization for industry roles.
- Implemented real-time resume preview with responsive layouts and print-ready CSS.
- Integrated local and cloud-based LLMs for scalable, hybrid AI processing.
- Designed a user-friendly full-stack application with Next.js and Tailwind for modern UI/UX.

KEY CAPABILITIES

AI/LLM: RAG systems, vector embeddings, multi-agent orchestration, prompt engineering.
Frontend: Angular, React, Next.js, TypeScript, Swift/SwiftUI, Electron.
Backend: Python, Node.js, REST APIs, microservices, real-time streaming.
ML/Data: Transformers, embeddings, vector DBs, caching strategies, TensorFlow.
UI/UX: Design systems, wireframes, prototypes, accessibility (WCAG).
DevOps: CI/CD, Docker, performance optimization, security best practices.

TECHNICAL PROFICIENCY

JavaScript, TypeScript, Python, Swift, PHP, Angular (v2–19), React (18), Next.js (14), Vue.js, SwiftUI, Node.js, Express.js, FastAPI, Laravel, Django, PostgreSQL, MySQL, MongoDB, Redis, Elasticsearch, TensorFlow, PyTorch, Transformers, Whisper, RAG, LangChain, Vector DBs, OpenAI GPT-4, Claude, Ollama, AWS, GCP, Docker, Kubernetes, Jenkins, CI/CD, Microservices, Jest, Cypress, Pytest.