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GOBI KRISHNAN A

TECHNICAL ARCHITECT | AI & GENAI ENGINEER

SUMMARY

Technical Architect and AI Engineer with 14+ years of experience delivering web, mobile, and enterprise applications across SaaS, e-commerce, insurance, and healthcare. Currently leads a team of 10 engineers, driving solution architecture and full stack development with React.js, Node.js, and Go, from requirements and system design (HLD/LLD) through Agile delivery and production support. Experienced in micro frontend architecture, reusable white-label frameworks, REST APIs, GraphQL, and AWS. AI expertise covers Generative AI (GenAI), multi-agent systems with Google ADK and the A2A protocol, large language model (LLM) integration, retrieval-augmented generation (RAG) over private documents, prompt engineering, embeddings, and vector search.

SKILLS

AI Engineering: GenAI, LLMs, Multi-Agent Systems, RAG, Prompt Engineering, Embeddings, Vector Search

AI Frameworks and Tools: Google ADK, A2A Protocol, Claude Code, Cursor, OpenAI Codex

Frontend and Mobile: JavaScript (ES6+), TypeScript, React.js, React Native, Redux, Redux-Saga, RxJS

Backend and Data: Go (Golang), Gin, Node.js, Express.js, GraphQL, RESTful APIs, PostgreSQL, MongoDB, MySQL

UI and Accessibility: HTML5, CSS3, Tailwind CSS, Material UI, Bootstrap, Responsive Design, WCAG

Architecture: Solution Architecture, System Design, HLD, LLD, Micro Frontends, Module Federation

Cloud and DevOps: AWS, Firebase, CI/CD, Jenkins, Git, GitHub, Bitbucket, SVN

Testing: Playwright, End-to-End (E2E) Testing, Jest, Jasmine, Karma, React Testing Library, Unit Testing, TDD

Delivery: Agile, Scrum, Jira, Sprint Planning, Stakeholder Management, Code Review

EXPERIENCE

Technical Architect | **UNS Artificial Intelligence Private Limited** | Feb 2025 to Present

- Lead a team of **10 engineers** in the **architecture and development of 8 AI-enabled software products**, covering UI/UX, APIs, databases, authentication, and cloud deployment.
- Shipped **7 products to production**, translating business requirements into scalable technical solutions and driving delivery from requirement analysis through production support.
- Guide **UI/UX implementation** for responsive, accessible interfaces using modern frontend frameworks.
- Review code, guide engineers on architecture and quality standards, resolve production issues, and coordinate testing, deployment, and releases.

Technical Architect | **Netyolk Technologies Private Limited** | May 2023 to Jan 2025

- Delivered **12 projects for 13 clients**, building full stack applications with **React.js, Node.js, and REST APIs** integrated with databases and authentication.
- Converted business requirements into **high-level and low-level designs (HLD/LLD)** to guide development.
- Established **reusable UI components** and maintainable architecture, reducing duplicated effort.
- Delivered workflows for **SaaS, subscription, point-of-sale (POS)**, and shop-management platforms.
- Coordinated **Agile delivery and sprint planning** with stakeholders, managing CI/CD, testing, and deployment.
- Optimized **API performance** and resolved microservice and production issues affecting key workflows.

Technical Lead | **Photon Interactive Private Limited** | **Bangalore** | May 2018 to Jan 2022

- Architected **20+ micro frontend modules** using **React.js, Redux, Node.js, and MongoDB**, enabling independent deployment and reducing coordination overhead between teams.
- Established **shared components, coding standards, and integration practices** to improve consistency and maintainability across frontend applications.
- Delivered modular features with product, design, and engineering teams, focused on performance.
- Managed version control and **continuous integration** using Git, Jenkins, and Bitbucket.

Tech Lead | **Axcend Automation & Software Solutions** | Jul 2017 to Feb 2018

- Directed B2C and B2B **insurance product development** with React.js, Redux, and Node.js.
- Built **accessible interfaces** that simplified complex insurance workflows for end users.

Lead UI Developer | **Altimetrik** | Dec 2013 to May 2017

- Delivered client interfaces in **React.js, Redux, and Bootstrap** with responsive design.
- Implemented **unit tests and accessibility standards** across interfaces with consistent UI/UX.

Senior Software Engineer | **Photon Interactive Private Limited** | May 2010 to Dec 2013

- Developed web and mobile interfaces with **JavaScript, jQuery Mobile, PhoneGap, Ionic, HTML, and CSS**, integrating backend services for client applications.
- Built web and mobile features from stakeholder requirements using Node.js, Drupal, WordPress, and PHP.

PROJECTS

Private Document AI Chatbot - Multi-Agent RAG Platform

Technologies: Google ADK, A2A Protocol, LLMs, RAG, Embeddings, Vector Search, React.js

- Built an AI chatbot that answers questions from **private document datasets** using **retrieval-augmented generation (RAG)**, grounding every response in the organization's own documents.
- Designed a **multi-agent architecture with Google Agent Development Kit (ADK)**, with specialized agents collaborating over the **Agent2Agent (A2A) protocol**.
- Implemented document ingestion, **embeddings, and vector search** for context retrieval, with a **React.js** chat interface.

ScanFirst - QR-First Restaurant Ordering & Billing SaaS

Technologies: React.js, TypeScript, Tailwind CSS, Go, Gin, REST APIs, PostgreSQL, Playwright, AWS

- Delivered a restaurant SaaS platform running across **20+ outlets** and handling **400+ orders per month**, with app-less QR ordering, digital payments, real-time kitchen tickets, and unified billing across counters.
- Architected the **React.js** frontend and **Go/Gin** backend services for menu management, ordering, payments, billing, and restaurant operations.
- Connected guest orders, kitchen operations, billing, and settlement with real-time multi-outlet tracking, giving management one consistent view across outlets.
- Built **100+ automated E2E tests with Playwright** for ordering, payments, billing, and operations.

H&M - E-commerce Web and Mobile Applications

Technologies: React.js, React Native, Node.js, MongoDB, iOS, Android

- Led full stack e-commerce delivery for web, iOS, and Android using **React.js, React Native, and Node.js**.
- Built a **React Native white-label framework** with reusable iOS/Android modules and configurable themes, launching mobile applications for **4 Alshaya brands** across **4 countries**.
- Separated brand-specific configuration from shared application logic, reducing duplicated effort and shortening the time to launch each new brand app.
- Centralized backend services in a **Mobile Application Server (MAS)** with third-party API adapters shared across all branded apps.

Sentara Health - Digital Transformation

Technologies: MongoDB, Express.js, React.js, Node.js (MERN)

- Delivered a **MERN** hospital application for patient health tracking, appointment scheduling, document digitization, and analytics across web and mobile platforms.
- Architected React interfaces and **Node.js/Express/MongoDB** services for patient healthcare workflows.
- Replaced manual, document-based processes with structured digital workflows, reducing administrative effort for healthcare teams.

EDUCATION

MASTER OF COMPUTER APPLICATIONS (MCA) | 2008

Sourashtra College, Madurai | Madurai Kamaraj University