





# Dinesha Vishwanatha

Founder & Principal Learning Systems Architect | Senior Product Design Architect

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## PROFESSIONAL SUMMARY

Visionary Senior Product Designer and Systems Architect with over 20+ years of experience specializing in Web3, Fintech, Predictive UX, and complex multi-tenant system design. Expert at transforming highly technical, data-heavy backend workflows into intuitive, high-performing phygital and digital user experiences. A cross-functional leader recognized for introducing robust system-design libraries, deploying serverless cloud architectures, reducing cognitive load, and engineering analytics ecosystems that drive clear institutional and corporate decision-making.

## CORE SKILLS & EXPERTISE

- **Product & System Architecture:** Multi-Tenant System Design, Shared-Core App Topologies, Localised Environment Configurations, Predictive UX, Information Architecture (IA), Complex Systems Mapping.
- **UI & Interaction Design:** Enterprise Design Systems, Component Tokenization, Universal Visual Hierarchy, Interaction Design Systems, Interactive Prototyping, Cross-Platform Responsive Layouts.
- **Engineering & Cloud Stack:** Cross-Platform App Development (Dart & Flutter SDK), Serverless Cloud Databases & User State Tracking (Google Firebase), Automated Beta Distribution (Firebase App Distribution), Platform Abstraction Bridges (Flutter MethodChannels).
- **Ecosystem Research & Strategy:** Data-Driven Strategic Prioritization, Stakeholder Alignment Workshops, B2B Executive Go-To-Market Campaigns, User Journey Mapping.
- **Design & Collaboration Utilities:** Figma, FigJam, Jira, Miro, Webflow, Adobe Creative Suite.

## PROFESSIONAL SUMMARY

Achala Enterprises | Bengaluru, India

Founder & Principal Learning Systems Architect | Nov 2026 – Present

- **Ecosystem Architecture:** Conceptualized and engineered the Achala Phygital Learning Hub—a zero-IT integration ecosystem pairing physical offline educational toolkits with real-time web/mobile cognitive tracking software to combat student screen fatigue.
- **Cross-Platform Engineering:** Developed highly responsive layout interfaces in Dart & Flutter, mapping tactile training protocols into rapid, seamless digital loops that reduced daily educator operational inputs to under 60 seconds.
- **Modular Multi-Tenancy:** Formulated a clean single-tenant core architecture wrapped with environment-specific feature configurations (school\_configs) to white-label instances for individual pilot academic institutions (e.g., Royal Public School) from a single code library.
- **Backend & Analytics Topology:** Designed an asynchronous pipeline leveraging Google Firebase to safely aggregate qualitative classroom data parameters into a secure Principal Analytics Dashboard for institutional heads.

- **Hardware Interoperability:** Implemented asynchronous platform abstraction logic using Flutter MethodChannels (Kotlin/Swift) to stream hardware sensor values directly into isolated analytics pipelines.
- **B2B Go-To-Market Execution:** Handled end-to-end local business development across West Bengaluru hubs, pitching curriculum architectures directly to K-12 principals to secure functional pilot audits.

## Fee Advisor AI | Bengaluru (Remote)

*Lead UX/UI Designer | Dec 2024 – Oct 2025*

- **Predictive UX Engine:** Architected the complete design framework for an AI-powered B2B financial platform, executing end-to-end product discovery, complex system wireframing, and interactive data visualization charts.
- **Frictionless Onboarding:** Transformed convoluted multi-tier Web3 integration processes into an intuitive, linear onboarding wizard, resulting in a 40% increase in successful user activations within the first 90 days.
- **Component Tokenization:** Designed and launched a comprehensive modular design system library using Figma, establishing tokenized UI patterns that reduced frontend development implementation loops by 35%.
- **Enterprise Dashboards:** Conceptualized real-time automated portfolio analysis workspaces, reducing cognitive fatigue for financial advisors navigating complex market algorithms.

## CryptoM DEX — Decentralized Exchange App

*Senior Product Designer (Fintech & Web3) | Jan 2024 – Nov 2024*

- **DeFi Platform UX:** Spearheaded the end-to-end user experience redesign for a high-volume decentralized finance (DeFi) trading network, standardizing transaction execution workflows.
- **Transaction Transparency UX:** Designed intuitive transactional states, explicit error-handling protocols, and smart contract verification modals that reduced user error rates by 30% and minimized platform drop-offs.
- **Stakeholder Alignment:** Facilitated interactive system architecture discovery workshops with cross-functional product owners, risk compliance heads, and core engineering squads to balance regulatory requirements with intuitive workflows.
- **Figma Library Architecture:** Built and maintained scalable design systems inside Figma, leveraging auto-layout properties, variant setups, and atomic structural components to align engineering deliverables across teams.

## ICOS RegTech Compliance Platform

Led UX for a multi-role compliance platform used by auditors, agents, and supervisors.  
(Enterprise AML, Monitoring, Audit Systems)

*Lead UX/UI Designer • UX UI Consultant | Singapore - Bengaluru  
August 2021 – December 2023*

- **Risk Management Systems:** Engineered modular compliance dashboards specializing in transactional alert management, cross-border disputes, and systemic evidence capturing.

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- **Cognitive Load Optimization:** Implemented strict information hierarchies across dense operational grid interfaces, leading to 30% faster risk evaluation actions for internal bank operators.
- **Corporate Governance:** Coordinated extensive validation workshops with security teams, legal counsels, and global product leads to secure rapid sign-offs for production rollouts.

### SmartGrader IoT App

Designed mobile workflow for an IoT grading system, optimizing both user actions and device interactions. (Mobile + Hardware Integration)

*UX/UI Designer | Singapore - Bengaluru*

*January 2020 – July 2021*

- **IoT Interaction Mapping:** Visualized end-to-end edge device and mobile application data exchanges for an industrial IoT grading network.
- **Operational Performance:** Developed a clean real-time field operator workspace for immediate scanning and analytical report compilation, dropping average manual task execution times by 25%.

### Early Career Footprint | United Kingdom & India

*Technical Architect | Technical Specialist | UX/UI Designer | January 2005 – November 2019*

- Designed interfaces, responsive layouts, and core information architecture frameworks across Healthcare, E-Learning, and early SaaS platform domains in Farnborough (UK) and Bengaluru.
- Designed early-stage baseline design systems and component libraries ahead of mainstream adoption trends.

## EDUCATION & CERTIFICATIONS

**Madurai Kamaraj University** | Bachelor's Degree in Computer Application (BCA) | 2004

**VISSJ Govt Polytechnic** | Diploma in Electrical & Electronics Engineering | 1999

**Certifications:** UX Strategy Management, Design Thinking, AI for Designers (Interaction Design Foundation)