

# Nandha Kumar Ilangovan

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## Summary:

Product Designer with 4+ years creating accessible, data-driven enterprise and AI/ML products. Skilled in simplifying complex workflows, leading teams, and designing scalable, user-focused solutions across web and mobile.

## Experience:

**Iowa State University, Graduate Research Assistant** / Jan 2024 - May 2025

- Redesigned UX for tractor display interface serving 50K+ farmers, reducing workflow complexity from 14 to 8 steps and decreasing user effort by 49% through iterative user testing, journey mapping, and stakeholder collaboration.
- Designed AI-powered anomaly detection tool improving accuracy from 67% to 89%, saving 2,000+ manual review hours monthly by designing streamlined admin workflows and optimizing information architecture for all users.

**Alfaleus Technology, Product Designer** / Nov 2022 - Mar 2023

- Designed accessible VR interfaces for healthcare apps, creating WCAG 2.1 AA-compliant design system that improved visual clarity for low-vision users by 40% and established scalable inclusive design guidelines across platforms.
- Led usability testing with 25+ stakeholders and end users, reducing critical user errors by 40% and increasing task success rates by 25% through refined interaction patterns, optimized input mapping, and enhanced navigation architecture
- Collaborated with cross-functional teams including developers, product managers, and healthcare professionals to ensure design feasibility and clinical effectiveness.

**XR Labs, Product Designer** / June 2019 - Aug 2022

- Designed enterprise UI for 10K+ VR users across web and mobile platforms, reducing onboarding time by 34% and improving decision-making efficiency by 20% through role-based dashboards and scalable component architecture.
- Led design operations for 5 product releases, establishing cross-functional collaboration workflows between design, engineering, and product teams that ensured consistent visual and interaction patterns across desktop, mobile, and VR.
- Conducted comprehensive usability testing and user research, analyzing feedback to enhance accessibility, streamline navigation, and optimize performance resulting in 85% user satisfaction scores.
- Owned and maintained a cross-platform Figma design system, establishing governance for versioning, library hygiene, and updates that ensured consistent adoption across 5 major product releases and reduced design debt/support tickets by 30%.

## Education:

**Iowa State University, United States**

Masters of Science in Human Computer Interaction | Aug 2023 - May 2025

**SRM Institute of Science and Technology, India**

Bachelor of Technology in Mechanical Engineering | Jul 2015 - May 2019

## Skills:

- **Design Tools & Platforms:** Figma, Sketch, Adobe XD, Photoshop, InVision, Miro.
- **Research & Strategy:** User Research, Usability Testing, User Engagement Analysis, Metrics, A/B Testing, User Journey Mapping, User Personas, Competitive Analysis, Design Thinking, Product Strategy, Feature Prioritization, KPI.
- **Design Execution:** Design Systems, Wireframing, Prototyping, High-Fidelity Prototypes, Mobile Applications, Web Applications, Accessibility Standards (WCAG 2.1), Information Architecture, Visual Design, Color Theory.
- **Development:** HTML, CSS, JavaScript, C#, Basic Front-end Development, API Integration, Data Visualization
- **Specializations:** AI/ML Integration, VR/AR Design, Consumer Applications, Enterprise Applications.
- **Collaboration & Process:** Cross-functional Collaboration, Agile Development, Scrum, Design Handoffs, Stakeholder Management, Workshop Facilitation, Design Sprints, Presentation, Storytelling, Problem Solving, Creative Thinking.

## Key Projects:

- Designed Legal.ai MVP with AI-powered contract analysis and legal research tools, creating intuitive drag-and-drop interfaces and interactive research dashboards that reduced legal document review and research time by 70%.
- Developed Figma plugin leveraging Claude AI for automated HTML/CSS and React generation, reducing design-to-development handoff time by 60% through streamlined workflow integration and secure API implementation.
- Created responsive web application for Chennai government schools featuring real-time speech analysis, Claude API integration for feedback generation, and teacher analytics dashboard, improving spoken English assessment efficiency for 1,000+ students..