



# Archana TK

Front-End Engineer

archanaprabhathtk@gmail.com

+91 6282581851

## about me.

A versatile front-end developer with a keen eye for design. Passionate about crafting user facing products that just works. I have a sharp eye for design and can translate UI/UX designs into high-quality code.

## Experiences.

### Founding Engineer - Asteriscus adtech

Kerala → Jan 2025 - Present

Founding team member at a startup building IoT-enabled digital in-transit media systems with full OTA control. Developed advertiser-facing platforms for creative uploads, campaign scheduling, and real-time device monitoring, while communicating with clients and cross-functional teams to gather requirements and deliver reliable features across distributed edge devices.

Stack: React.js, Javascript, Next.js, Tailwind CSS, Linux, Golang, Docker, Kafka, SQLite, Prometheus, Grafana, Loki, Terraform, NetworkManager/ModemManager, Rockchip boards, Raspberry Pi, systemd, shell scripting, CI/CD.

### SDE - Vymo | MetaZ Digital

Bangalore → May 2024 - Jan 2025

Key developer for HDFC Bank's collections platform (via Vymo), contributing across frontend and backend for mission-critical fintech systems. Built performant user interfaces and delivered critical fixes and enhancements. Troubleshoot complex production issues including distributed job failures and API pipeline bottlenecks, and implemented authentication flows using JWT and OAuth with secure session handling. Debugged high-impact issues across services and client environments to ensure reliability in production.

Tech: JavaScript(ES6), TypeScript, React.js, Node.js, Express.js, Microservices, REST APIs, JWT, OAuth, MongoDB/Mongoose, Airflow, SFTP, WebSockets, Chart.js, AWS, Version control(Git), Jira, Agile Scrum teams

### React Intern - GamersBack

Remote → Nov 2023 - Mar 2024

Enhanced the company website and admin panel using React (Vite) with responsive Tailwind components, building features within a monolithic architecture. Implemented JWT-based authentication, React Router navigation, and Redux for state management while improving component structure and overall application performance.

Tech: React.js, Vite, Tailwind CSS, Material UI, Context API, Redux, React Router, JWT, HTML/CSS, JavaScript, TypeScript, Responsive Design, Postman, Figma.

## Achievements.

### Chrome Extension (Security POC) - Manorama Media

November 2025

Identified a security vulnerability in Manorama Media's online magazine platform that allowed premium content downloads by bypassing access controls. Built a private Chrome extension as a proof of concept using content scripting, DOM interaction, and request manipulation to demonstrate the exploit, and responsibly reported the issue to the organization.

[Demo Video](#)

Tech: Chrome Extension (Manifest v3), content scripts, background workers, Chrome APIs, DOM interaction, CSP/CORS, Chrome DevTools, JavaScript/TypeScript.

### Frontend Volunteer - People+AI

Remote → Jan 2025 - Mar 2025

Volunteered on Sunva AI, an opensource project supporting the deaf community through tech-driven communication tools

## Socials.

[Portfolio](#)

[Github](#)

[LinkedIn](#)

[Medium](#)

[YouTube](#)

[Exercism](#)

## Education.

### Chinmaya College

BCA

## Recognition.

### Lead - Campus Code Club

Nov 2020 - May 2023

### Mentor - Tinker-Her-Hack | Tinkerhub Foundation

Kerala → Mar 2 - 3, 2024

Mentored a 24-hour hackathon at Vimal Jyothi Engineering College, guiding seven B.Tech teams with technical support and problem-solving insights.

### Computer Science Tutor

Kerala → Dec 2020 - Present

Taught 11th and 12th-grade students programming, data structures, algorithms, databases, web development and software development concepts, fostering practical problem-solving skills through hands-on coding projects.

## AI Integrations

[VoiceNotes Clone](#) [Walkthrough](#)

Worked on frontend projects integrating AI APIs for voice processing, summarization, and content automation. Experience using Vertex AI, Gemini, OpenAI, and Grok, handling API keys securely, and building user-facing features around AI-driven workflows across portfolio projects.

Tech: Vertex AI, Gemini API, OpenAI API, Grok, AI/ML API integrations, secure API key handling, REST pipelines.