

AVINAG UDAYAGIRI

Frontend Developer

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SUMMARY

Frontend Developer with **3+ years of experience** designing, developing, and maintaining **production web applications** and cross-platform mobile applications using **Angular, TypeScript, JavaScript, Ionic, and React Native**. Experienced in building scalable frontend architectures, reusable UI systems, RESTful API integrations, responsive web applications, and cloud-connected solutions. Strong background collaborating with cross-functional Agile teams to deliver modern applications from concept to deployment. Proficient in Angular, JavaScript, Python, Nx Monorepo, CI/CD, and performance optimization, with a strong interest in cloud technologies including **Google Cloud Platform (GCP)**.

TECHNICAL SKILLS

Languages: TypeScript, JavaScript, Python

Frontend & Mobile: Angular 17+, Ionic 8, Capacitor, React Native, HTML5, CSS3, Responsive Design

State Management & Data: RxJS, Angular Signals, RESTful APIs, Firebase/Firestore, D3.js

Architecture & Tools: Nx Monorepo, Azure API Management, Git, Figma, Jira, Linux

Engineering Practices: Agile Scrum, Code Reviews, Performance Optimization, CI/CD, Cross-Functional Collaboration, Web Application Development

PROFESSIONAL EXPERIENCE

OAKS Solutions — Frontend Developer

Hyderabad, India | Dec 2024 – Present

- Designed, developed, and maintained production-grade web applications for SIYA AI, an AI-powered school assessment platform built with **Angular 17+, Ionic 8, and Capacitor**.
- Built the teacher-facing application from the ground up, implementing onboarding workflows, navigation systems, and an AI-powered question generation platform supporting 13+ question types.
- Collaborated closely with product managers, backend engineers, QA teams, and designers to deliver scalable web solutions in Agile Scrum environments.
- Reduced worksheet generation time from **4 minutes to approximately 1 minute** through frontend optimization and backend integration improvements.
- Improved application performance by reducing the initial JavaScript bundle size by **2.3 MB** using lazy loading, dependency optimization, and modern Angular architecture.
- Migrated the application to Angular standalone components and Angular Signals with zoneless change detection, improving maintainability and application performance.
- Designed and implemented a reusable HTML templating engine using Handlebars, Mustache, and Reveal.js powering automated document generation across multiple educational products.
- Contributed across multiple production applications including **SIYA AI, PEEKAZOO, TITLI, TOPTRIX, BGR TRIPCARD, and MAVRICKS**.

- Participated in code reviews, **CI/CD processes**, architecture discussions, and cross-functional planning sessions.

Clikkin — React Native Developer

Chennai, India (Remote) | Nov 2024 – Dec 2024

- Developed production-ready mobile application features for **The Startup Club** using React Native and Expo.
- Built reusable UI components while ensuring consistent user experience across Android and iOS.
- Worked within a geographically distributed cross-functional engineering team using Agile methodologies.

Clikkin — Angular Developer (Intern)

Chennai, India (Remote) | May 2024 – Nov 2024

- Developed frontend features for **VIVADA**, a production Angular web application focused on combating misinformation.
- Built interactive visualizations using D3.js to represent social network data.
- Integrated REST APIs and collaborated with backend developers to deliver new application functionality.
- Participated in Agile development, sprint planning, and collaborative code reviews.

iWish Labs, Inc. — Angular Developer (Intern)

Virginia, USA (Remote) | Apr 2023 – May 2024

- Designed and built the frontend for **TOT Master**, a school bus tracking mobile app for parents and administrators, taking full ownership from UI implementation to backend integration.
- Integrated Firebase Authentication, Firestore, and cloud-hosted services for real-time data synchronization.
- Built responsive and cross-browser compatible user interfaces from Figma designs using Angular, HTML5, CSS3, and JavaScript.
- Optimized frontend performance and improved application responsiveness.

PROJECTS

Welcoming Bot — Raspberry Pi, Python, OpenCV

- Built a motion-detection system using computer vision to automatically trigger a greeting when someone enters a room, integrating hardware and software.

ACHIEVEMENTS

Employee of the Month — OAKS Solutions, April 2025

EDUCATION

Usha Rama College of Engineering & Technology — Gannavaram, India

GPA: 8.01 / 10.0