

Chandan Mishra

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EXPERIENCE

Tata 1mg

Software Development Engineer 1 (Frontend & Platform)

Gurugram, India

Jul 2024 - Present

- **Architected a Hybrid Mobile Framework (Webview)** rendering dynamic **React.js** pages within native apps for Pharmacy & Diagnostics. Enabled "over-the-air" deployments, bypassing 2-week App Store reviews to deliver features in **minutes**.
- **Engineered Real-time Dashboard Updates** using **Pusher (WebSockets)**, replacing legacy polling mechanisms. This ensured **sub-second data synchronization** for operations teams, saving **35 person-hours daily** in manual refreshes.
- **Integrated Native-JS Bridge** for secure 2-way data exchange (Auth tokens, RiderId) between web/native layers. Implemented **Deep-linking** logic to route users precisely to internal app states from external campaigns.
- **Standardized WebView Debugging** by establishing a wireless **Android Debug Bridge (ADB)** protocol, removing hardware dependencies. Reduced time to debug **environment-specific network issues** by **40%**.
- **Full Stack Expansion:** Constructed a high-throughput Bulk Notification Service using **Python** and **Kafka**. Leveraged **Semaphores** to manage concurrency, ensuring reliable delivery of massive **Cloud Messaging** alert volumes.
- **Optimized Backend Data Retrieval:** Slashed database load by **40%** and reduced API latency by consolidating 9 individual endpoints into a single aggregated query using efficient **SQL GROUP BY** and **composite indexing**.
- **Lead Frontend Engineer (Sole Owner):** Established engineering standards and introduced strict **TypeScript** compliance/code review protocols, minimizing technical debt across the **Monorepo** and reducing production bugs.

LongShot AI

Software Engineer Intern (Promoted from Frontend Intern)

Remote

Jul 2023 - Jun 2024

- **Modernized Authentication Infrastructure:** Migrated Login flow to strict **TypeScript**, eliminating **runtime type errors** and reducing auth-related regressions by **25%**. Hardened edge-case handling for enterprise clients.
- **Developed Integration Middleware** using Node.js to synchronize content with external platforms (Webflow, Google Drive). Streamlined cross-platform workflows, directly driving a **15% retention uplift**.
- **Frontend Performance:** Achieved a **20% increase** in engagement by implementing **Response Streaming** for AI text generation. Reduced **Time-to-First-Byte (TTFB)** by **40%** via advanced event listeners.

PROJECTS

NyaySetu | GenAI Chatbot for Indian Legal System

Finalist - SIH 2023

Oct 2023 - Dec 2023

- **Multilingual voice conversational AI assistant:** Built real-time **Speech-to-Text (STT)** and **Text-to-Speech (TTS)** pipelines to enable seamless bidirectional audio interaction in multiple Indian vernacular languages.
- **Impact:** Secured **National Finalist** position in Smart India Hackathon 2023 for improving legal accessibility.

BinaryDreams | Full Stack AI Image Platform

Full Stack Web Application

Mar 2023 - Apr 2023

- **Scalable System:** Built a robust MERN stack application integrating **DALL-E API** and **Cloudinary**. Implemented aggressive asset caching and adjustable quality settings, boosting user retention by **35%**.

TECHNICAL SKILLS

Frontend Core: React.js, Next.js, TypeScript, JavaScript, HTML5/CSS3, SASS, Redux, Vue.js

Web Platform: WebView Architecture, WebSockets, Server-Sent Events (SSE), Chrome DevTools Protocol, Service workers

Backend & Infra: Node.js, Python, Kafka, PostgreSQL, MongoDB, Nginx, Git

System Design: Real-time Systems, Event-Driven Architecture, Caching (Redis/CDN), Monorepo

EDUCATION

Dr. A. P. J. Abdul Kalam Technical University, India

Bachelor of Technology in Computer Science and Engineering

2020-2024

ACHIEVEMENTS

Top 12%

LeetCode Contest Rating **1707** (400+ Problems Solved)

present

Finalist

Hackfest 2024 - Company-wide Hackathon at **Tata 1mg**

Nov 2024

Specialist

CodeForces Rating **1412** (Competitive Programming)

present

National Finalist

Smart India Hackathon 2023 (MHRD Govt of India)

Dec 2023

PROFILE LINKS

Portfolio: dontdude.vercel.app | **LeetCode:** leetcode.com/dontdude | **CodeForces:** codeforces.com/profile/dontdude