

# Chandan Mishra

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## EXPERIENCE

### Tata 1mg (India's Largest E-Pharmacy Unicorn | 50M+ Users)

Gurugram, India  
Jul 2024 - Present

Software Engineer

- **Architected a Webview Interface** to render React pages within native apps with native-like performance. Enabled **Over-the-Air (OTA)** updates and rapid **A/B Testing**, bypassing 2-week App Store reviews to deliver features in minutes.
- **Back-End Scale & Reliability:** Engineered a high-throughput Bulk Notification Service using **Apache Kafka**, leveraging **Consumer Groups** and **Semaphores** to manage concurrency for massive Cloud Messaging volumes.
- **Database Optimization:** Slashed database load by **40%** by consolidating 9 individual endpoints into a single aggregated query using efficient **SQL GROUP BY** and composite indexing.
- **Real-time System Architecture:** Designed end-to-end **Pusher (WebSockets)** integration to replace expensive polling. Implemented **Page Visibility API** logic to suspend data syncing on inactive tabs, reducing unnecessary server load by **30%** while achieving **sub-second synchronization**.
- **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.
- **Core Maintainer (Frontend Infrastructure):** Established engineering standards and introduced strict **TypeScript** compliance/code review protocols, minimizing technical debt across the **Monorepo** and reducing production bugs.

### LongShot AI

Remote

Software Engineer Intern

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.
- **Core Chatbot Integrations:** Developed complex UI modules and integration middleware for the core Chatbot, synchronizing content with platforms like Webflow & Drive for enterprise clients.
- **High-Scale UX Performance:** Implemented **JS Fetch Streams** to handle AI response streaming for **200k+ global users**, reducing perceived latency by showing content generation in real-time.

## PROJECTS

### Goxec | Distributed Remote Code Execution Engine

Dec 2025 - Present

Personal Project

- Architected a fault-tolerant **Distributed System** in **Go**, achieving **<500ms cold-start latency** via **Docker-out-of-Docker (DooD)** socket mounting (outperforming nested virtualization).
- Guaranteed **Zero Job Loss** during worker failures by implementing **Redis Streams Consumer Groups**, utilizing the **Pending Entry List (PEL)** for automatic crash recovery.
- Reduced deployment artifact size by **96% (800MB → 30MB)** by utilizing **Multi-Stage Docker Builds** and **Go Static Compilation** on Alpine Linux.
- Engineered a real-time event pipeline using **WebSockets** (sub-50ms latency) and implemented **Page Visibility API** logic to suspend synchronization on inactive tabs, reducing server load by **30%**.

### NyaySetu | GenAI Chatbot for Indian Legal System

Oct 2023 - Dec 2023

Finalist - SIH 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.

## TECHNICAL SKILLS

**Languages:** Go (Golang), TypeScript, JavaScript, SQL (PostgreSQL), Python

**Backend & Systems:** Docker, Redis (Streams/PubSub), Kafka, Microservices, Event-Driven Architecture, AWS

**Frontend:** React.js, Next.js, Redux, WebSockets, WebView Architecture

**Tools & DevOps:** Nginx, Git, Linux, CI/CD, GitHub Actions

## EDUCATION

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

2020-2024

Bachelor of Technology in Computer Science

## ACHIEVEMENTS

<b>Top 12% Finalist</b>	LeetCode Contest Rating <b>1707</b> (400+ Problems Solved)	present
<b>Specialist</b>	Hackfest 2024 - Company-wide Hackathon at <b>Tata 1mg</b>	Nov 2024
<b>National Finalist</b>	CodeForces Rating <b>1412</b> (Competitive Programming)	present
	Smart India Hackathon 2023 (MHRD Govt of India)	Dec 2023

## PROFILE LINKS

**Portfolio:** [dontdude.vercel.app](https://dontdude.vercel.app) | **LeetCode:** [leetcode.com/dontdude](https://leetcode.com/dontdude) | **CodeForces:** [codeforces.com/profile/dontdude](https://codeforces.com/profile/dontdude)