

Chandan Mishra

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EXPERIENCE

Tata 1mg (Unicorn HealthTech)

Software Development Engineer 1

Gurugram, India

Jul 2024 - Present

- **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 (Full Stack):** Designed end-to-end **Pusher (WebSockets)** integration (Backend/Frontend) 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.
- **Module Owner (Frontend Architecture):** 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.
- **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 (DoD)** 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, HTML/CSS

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

Frontend: React.js, Next.js, Redux, WebSockets, WebView Architecture, Chrome DevTools Protocol

Tools & DevOps: Nginx, Git, Linux, CI/CD

EDUCATION

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

2020-2024

Bachelor of Technology in Computer Science and Engineering

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 ↗