



## CHANCHAL MAITY

AI-NATIVE PRODUCT ENGINEER

Full-Stack | Mobile | Backend

### CONTACT

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Portfolio: <https://chanchal.aaspasindia.com>

Location: Contai, East Midnapore, West Bengal 721427

Languages: Bengali, Hindi, English

### SPECIALITY SNAPSHOT

- React Native mobile apps
- Node.js + MongoDB systems
- Realtime Socket.IO products
- Payments, maps, calling
- Native Android behavior
- IoT hardware-to-cloud
- DSA problem solving
- GenAI-assisted debugging

### TECHNICAL STACK

Mobile: React Native, Expo, Flutter, TypeScript, Java

Web: Next.js, React, Tailwind CSS, Bootstrap, Framer Motion

Backend: Node.js, Express.js, MongoDB, Mongoose, JWT

Foundations: Python scripting, DSA, algorithms, debugging

Realtime: Socket.IO, WebSockets, Redis-style active state

Integrations: Razorpay, Maps, Agora, Firebase FCM, Twilio

Tools: Git/GitHub, Postman, docs, GenAI prompts, Vercel, Render

IoT: ESP32, relay control, schedules, heartbeat recovery

### BEST FIT ROLES

- AI-Native Product Engineer
- Full-Stack Developer (React Native & Node.js)
- Mobile Product Engineer (Maps, payments, realtime)
- Backend & Automation Developer (Python/Node.js)

### INTERESTS

- Movies and music
- Building new apps and product experiments
- Hardware-software ideas and device workflows
- Exploring new tools, APIs, and automation

# Chanchal Maity

## Full-Stack & Mobile Product Engineer

I build production-ready mobile, backend, realtime, IoT, and GenAI-assisted product systems end to end.

### TOP SPECIALITY

Marketplace-grade apps with realtime state, payments, maps, native Android, DSA-style problem solving, and backend-owned correctness.

**AasPas**  
customer + worker

**Realtime**  
tracking + calls

**IoT**  
ESP32 control

**Problem solving**  
DSA + debugging

### PROFESSIONAL SUMMARY

3+ years building React Native, Flutter, Next.js, Node.js, Python scripting, MongoDB, Socket.IO, payments, maps, native Android, IoT, and GenAI-assisted products.

Strongest proof: AasPas, a customer-worker marketplace with live tracking, in-app calling, payments, wallet/earnings, DSA-style problem solving, and admin-ready backend operations.

### EXPERIENCE

#### Founder & Lead Product Engineer - AasPas India

Sep 2025 - Present

CPJ Solution | React Native, Node.js, MongoDB, Socket.IO, Razorpay, Maps, Agora, FCM, Native Android

- Built customer and worker flows: discovery, booking, acceptance, tracking, payments, wallet, reviews, support, and admin visibility.
- Integrated Socket.IO tracking, Razorpay, Maps, Firebase FCM, Agora calling, and Android full-screen booking/call flows.
- Owned backend correctness for booking state, payment status, worker earnings, commission, wallet records, and recovery.
- Solved complex edge cases around double-booking prevention, active-job recovery, realtime state, and weak-network behavior.

#### Technical Integration Specialist - Brightex Solutions Pvt. Ltd.

2023 - 2024

Device performance + software-hardware integration

- Optimized device performance and component-level software-hardware integration workflows.

#### TRC Engineer, QC Department - Aforereserve.com LTD

2022 - 2023

Lenovo service workflow

- Diagnosed Lenovo device quality issues and strengthened hardware-aware debugging discipline.

#### Freelance Full-Stack Developer - NDA Clients

2025 - Present

Business automation | secure mobile apps | API integrations

- Delivered 15+ NDA projects across automation, secure app workflows, backend APIs, and integrations.

### FLAGSHIP PRODUCT WORK

#### AasPas

Live tracking, native calls, payments, wallet/earnings, reviews, AI help, and admin ops.

#### AasPas Smart Box

ESP32 relay control, timers, schedules, energy analytics, heartbeat, fallback, and power recovery.

#### Private Theater

Host playback, room links, chat, WebRTC voice, and multi-source video support.

#### Commerce + Mobile Systems

Ecommerce, telephony, imaging, auth, admin tools, API flows, and polished mobile UX.

### EDUCATION & CERTIFICATIONS

#### HackerRank Certifications

2026

Problem Solving, JavaScript, Node.js, REST API, and React

#### Diploma in Computer Hardware & Networking

2020 - 2022

The George Telegraph Training Institute - First Class with Honours (73.63%)

#### Higher Secondary (HS)

2020

Nachinda Jibankrishna High School - A+ (85.4%)

### CORE STRENGTHS

- End-to-end product ownership across mobile apps, backend APIs, realtime systems, payments, maps, and admin workflows.
- DSA-backed problem solving for state consistency, race conditions, recovery paths, and production bugs.
- Self-directed GenAI-assisted engineering with documentation, prompt workflows, Git/GitHub, API testing, and manual verification.

Portfolio focus: mobile, backend, realtime, DSA problem solving, native Android, IoT, and GenAI workflows.