

# RUDRA PRATAP SINGH CHOUHAN

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## EDUCATION

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### Birla Institute of Technology and Science, Pilani

B.E. Computer Science

South Goa, Goa, India

June 2019 – August 2023

## TECHNICAL SKILLS

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**Languages:** Python, TypeScript, JavaScript, C/C++, SQL

**Frontend:** React, React Native (Expo), Next.js, Tailwind CSS

**Backend:** Node.js, Express, PostgreSQL, DynamoDB, MongoDB, Redis, Firebase

**Cloud & DevOps:** AWS (Lambda, S3, API Gateway, DynamoDB), Docker, Supabase, Vercel

**AI/ML:** LLMs (Claude, Groq), RAG, ONNX Runtime, YOLO, Segment Anything Model, WebAssembly

## WORK EXPERIENCE

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### Product Engineer

Raaz (Healthcare Platform), Bangalore, India

Jan 2025 – Present

- Led development of a healthcare platform end-to-end: React Native app (Expo), Express/TypeScript API, Supabase database, and 10+ Lambda microservices, serving **55,000+ users**.
- Integrated Razorpay, Shopify, Prozo WMS, and Proship into a unified order pipeline with idempotent webhook handlers and Redis-backed queues, enabling multi-channel sales across app, web, and WhatsApp.
- Designed a real-time call center system using Socket.io, DynamoDB, and SSE streaming; connected Tata Tele telephony with Zoho CRM to automate appointment tracking and lead rescheduling across **200,000+ monthly calls**.
- Developed an AI-powered clinical assessment engine (weighted scoring, branching logic, severity analysis) that generates personalized PDF reports and diet charts via Claude and Groq APIs, replacing a fully manual doctor workflow and cutting consultation prep time by **70%**.
- Increased **lead capture by 10%** and **user retention by 25%** by designing a notification system with smart scheduling, behavioral nudges, and cohort-based targeting; built an Amplitude analytics layer to measure engagement across the full patient lifecycle.

### Software Engineer

GJ-Map Solutions, Udaipur, India

May 2024 – October 2024

- Built a browser-based object detection system for GIS imagery by compiling C++ inference kernels to WebAssembly and integrating ONNX Runtime with Meta's Segment Anything Model, reducing detection time by **40%** and eliminating server-side processing.
- Delivered **6** production React applications used by government and enterprise GIS teams, built on ArcGIS SDK with real-time map layers, spatial queries, and custom data visualization.
- Designed and built the company's Node.js + SQL backend from scratch, including an automated pipeline for geospatial data ingestion, validation, and email-based submission tracking.

### Software Engineering Intern

SuperPe, Bangalore, India

July 2022 – December 2022

- Built a fraud detection dashboard in React that flagged anomalous transactions in real time, enabling support agents to intervene before settlement and reducing fraud losses by **50%**.
- Developed the user onboarding and payment checkout flows in the React Native app, including Geolocation-based service gating that blocked out-of-region access, serving **50,000+** daily transactions.

## ADDITIONAL

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- **Ultimate Frisbee:** Gold Medalist, National Open Championship Series (2025) and National College Ultimate Championship (2023).