Raja Chakraborty



AI Engineer | Applied AI, LLM Applications, RAG & Agents

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PROFESSIONAL SUMMARY

Product engineer with 10+ years of software delivery, focused on applied AI applications. Connects LLM integrations, RAG, prompt design and agent/tool workflows to backend services, data and user interfaces. Owns requirements, implementation, QA, release validation and production support across web and mobile products.

TECHNICAL SKILLS

AI: Generative AI, LLM applications, retrieval-augmented generation (RAG), prompt engineering, AI agents and tool workflows, AI-assisted automation; vector search concepts

Backend: Python, Node.js, REST APIs, PostgreSQL, MongoDB, Redis, Firebase, SQL, data modeling, API integrations

Mobile: Flutter, Dart, native Android, Java, Kotlin, Firebase, mobile release validation

Web: React, Next.js, TypeScript, JavaScript, Tailwind CSS

Delivery: Git, CI/CD, software testing, production debugging, product shaping, prioritization, QA and release coordination

RECENT AI-ENABLED PROJECTS

GoalX

Flutter goal and savings tracker with recurring plans, versioned backup, optional Firestore sync and review-before-write AI guidance.

github.com/rjchakraborty/goalx

Robot/Shift

Robotics and ROS 2 learning platform with an AI tutor, built with Next.js, React, TypeScript and Firebase.

github.com/rjchakraborty/robot-shift

PDFVoice

AI-assisted macOS PDF-to-audio project exploring on-device OCR, neural narration, forced alignment and synchronized text highlighting, using SwiftUI, PDFKit, Vision, MLX and ONNX Runtime.

github.com/rjchakraborty/pdfvoice

LocalDub

Open-source audio dubbing preview for Apple Silicon using Python and MLX: on-device Whisper transcription, Hy-MT2 translation and Qwen3-TTS reference-voice synthesis. Sequential batches, editable review, selective regeneration, and MP3/WAV/WebVTT exports. Output requires listening review.

github.com/rjchakraborty/localdub

PRODUCT DELIVERY

Extensive product-management work across requirements, prioritization, UX, cross-functional execution, QA, release coordination and operational support. Shipped product experience includes school planning (Classify), savings and payments (Sav Money), and payroll, purchasing, inventory, production and accounting (Tea ERP).

PROFESSIONAL EXPERIENCE

Full Stack Engineer | Piston

December 2023 - Present

- Build product workflows across responsive web applications, backend services and mobile integrations using Next.js, Python, MongoDB, Redis and Flutter.

- Translate requirements into APIs, data flows, user-facing features and operational tooling. Own debugging, testing, release validation and production issue resolution.

- Apply AI and machine-learning capabilities where they fit the product workflow.

Full Stack Developer | Ancile Technologies

November 2017 - November 2023

- Built mobile applications, responsive web applications, backend services, REST APIs, data models and integrations across customer products and business systems.

- Owned delivery from requirements and UX through implementation, testing, deployment, release validation and operational support using React, Next.js, Node.js, Flutter, native Android, MongoDB and Firebase.

- Delivered messaging, payment, location and subscription workflows with SDKs, Maps, Firebase and payment integrations.

Flutter and Native Android Developer | Guni - Messaging Platform

July 2016 - October 2017

- Developed Android mobile automation and network-testing workflows, including scripted WebView interactions, ADB commands, network controls and call testing.

Android Developer | RJS Tech Solution

May 2015 - June 2016

- Developed native Android applications and REST/JSON integrations. Built and debugged services, content providers, broadcast receivers and location-aware workflows.

EDUCATION

Post Graduate Diploma, Remote Sensing & GIS | Jadavpur University CAD Centre

Bachelor of Arts, Geography | A.B.N. Seal College

WORK PREFERENCE

Fully remote AI, backend, full-stack or mobile engineering. Open to employers in India and international teams hiring remotely from India.