FREELANCE FULL-STACK DEVELOPER & AI/LLM ENGINEER

Whatever you imagine, *you'll get it.*

Software Engineer & Data Analyst building AI/LLM-augmented systems and full-stack products — encrypted messaging, real-time calling, payments.

1,430
tests added to the messenger
COVERAGE 51% → 74%

145
API endpoints, one backend
50+ MODULES

4,000+
users served
99% UPTIME

10
people per group call
SCALED FROM 6

Know me.

From Narayanganj to a room full of code. The places that made me, in order.

2000

Born in Narayanganj.

I was born on 6 May 2000 in Narayanganj, Bangladesh.

2005

School years.

I completed my schooling at Narayanganj High School and College, from 2005 to 2017.

2017

Govt. Tolaram College.

Then I completed my 11th and 12th at Govt. Tolaram College.

2020

The best decision of my life.

Lovely Professional University — B.Tech, CSE (Data Science, AI & ML), 2020 — 2024, First Class. I started coding full days in a room.

2024

Then the journey started.

Senior Backend Developer at Cleverlyy, Executive Engineer at Tex Fasteners, then CTO of OmniDevX Studio. And I'm still on it.

PHILOSOPHY

Skills matter the most, but real skills take time to build. Practice alone is not enough —you have to take on big challenges, step outside your comfort zone, and learn by solving real problems. That practical experience becomes knowledge that stays with you for life. Let people do the bitching; I'll respond with my work. Stay loyal to what you do, stay hungry for growth and financial success.

Tell me what to build.

Whatever you imagine — trust me, you'll get it. As a freelance full-stack developer — or your fractional CTO — here's what I design and build end to end, from startup MVPs to production platforms, for founders, companies and studios worldwide.

01 **Mobile app development** p. 04
REACT NATIVE · EXPO · KOTLIN · CALLKIT

02 **Web apps & admin dashboards** p. 05
NEXT.JS · REACT · TAILWIND · SWR

03 **Backend & API development** p. 06
NESTJS · POSTGRESQL · REDIS · SOCKET.IO

04 **Encrypted chat apps & security** p. 07
LIBSIGNAL · SQLCIPHER · MFA · JWT

05 **AI integration & LLM features** p. 08
LLM APIS · AUTOMATION · PYTHON · ML

06 **E-commerce & Stripe payments** p. 09
MAGENTO · STRIPE · WALLETS · ESCROW

07 **Video calling & real-time apps** p. 10
WEBRTC · MEDIASOUP · MAPBOX · FCM

08 **Data dashboards & automation** p. 11
SQL · SHEETS · APPS SCRIPT · BI

09 **Fractional CTO for startups** p. 12
ARCHITECTURE · ROADMAP · CODE REVIEW · SECURITY · HIRING

10 **MVP development for startups** p. 13
REACT NATIVE · NEXT.JS · NESTJS · POSTGRESQL · STRIPE



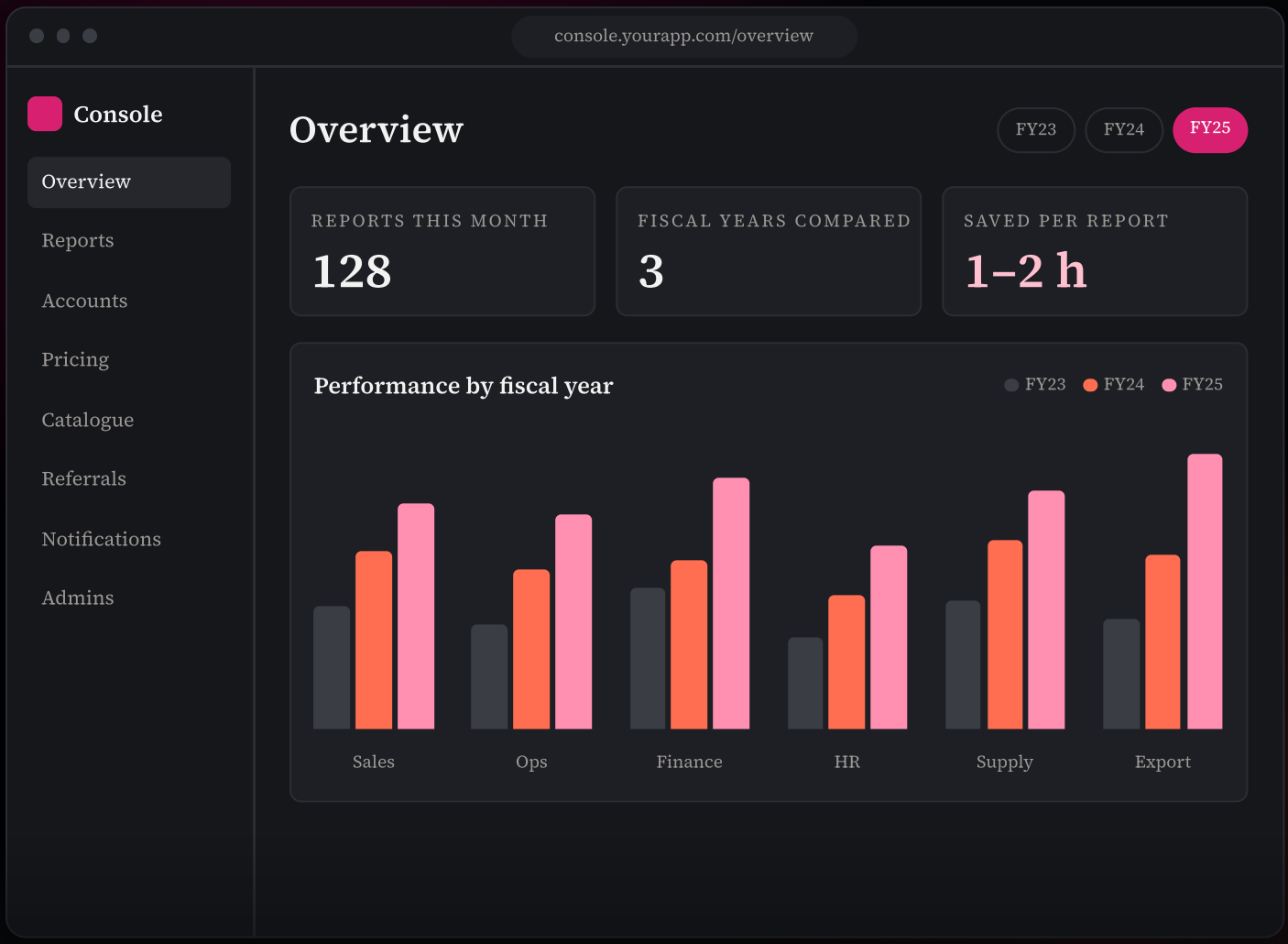
01 Mobile app development

iOS and Android apps in React Native and Expo, with native Kotlin and CallKit modules where they matter.

Bravo Secure CPO app: live GPS tracking with native Mapbox turn-by-turn navigation and SOS linkage.

Heritage Vault on mobile: policies, wills, power of attorney and an encrypted vault.

Push that rings a killed app, via CallKit and Telecom.



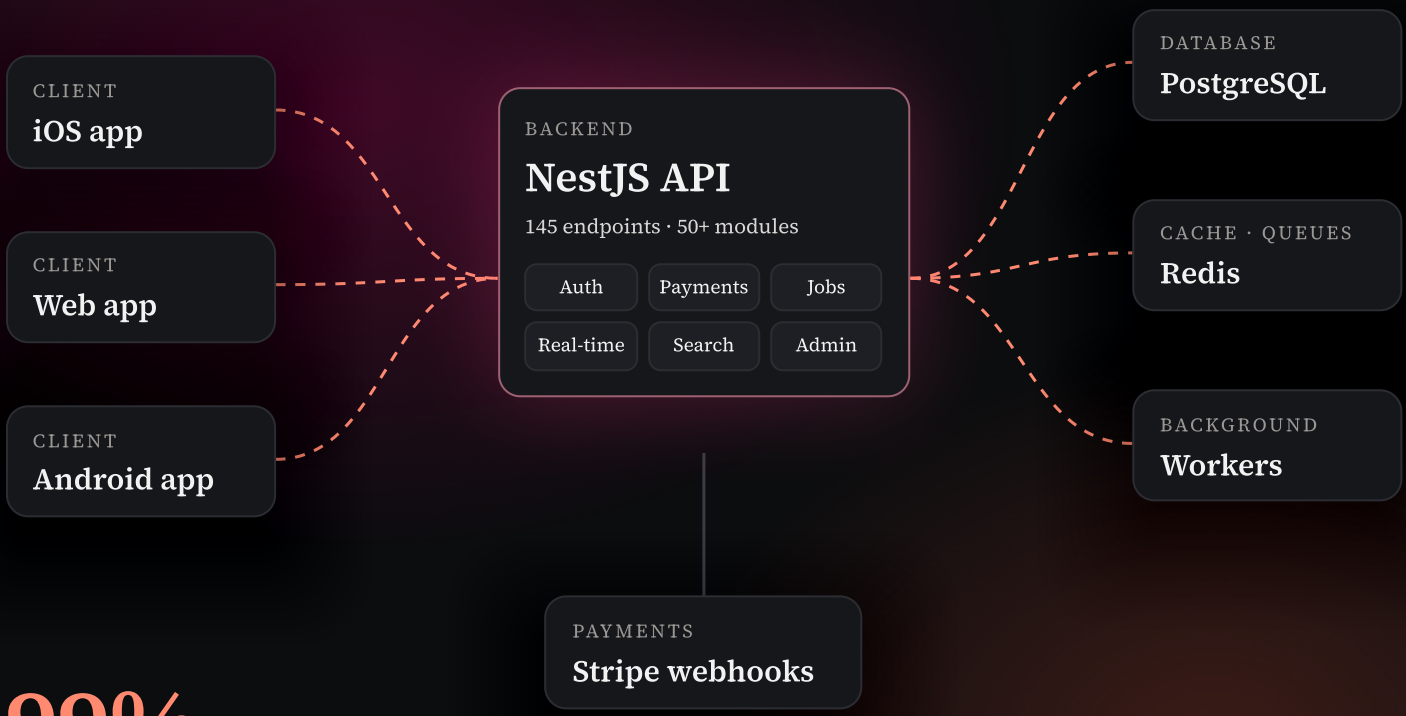
02 Web apps & admin dashboards

Custom web development in Next.js and React — product sites, SaaS web apps, admin consoles and data dashboards.

A Next.js ops console with four admin levels, account provisioning, pricing and catalog management.

The ourheritagevault.com web app: overview, power of attorney, legacy letters, policies.

Referral campaigns and notifications built into the console.



99%

uptime · 4,000+ users

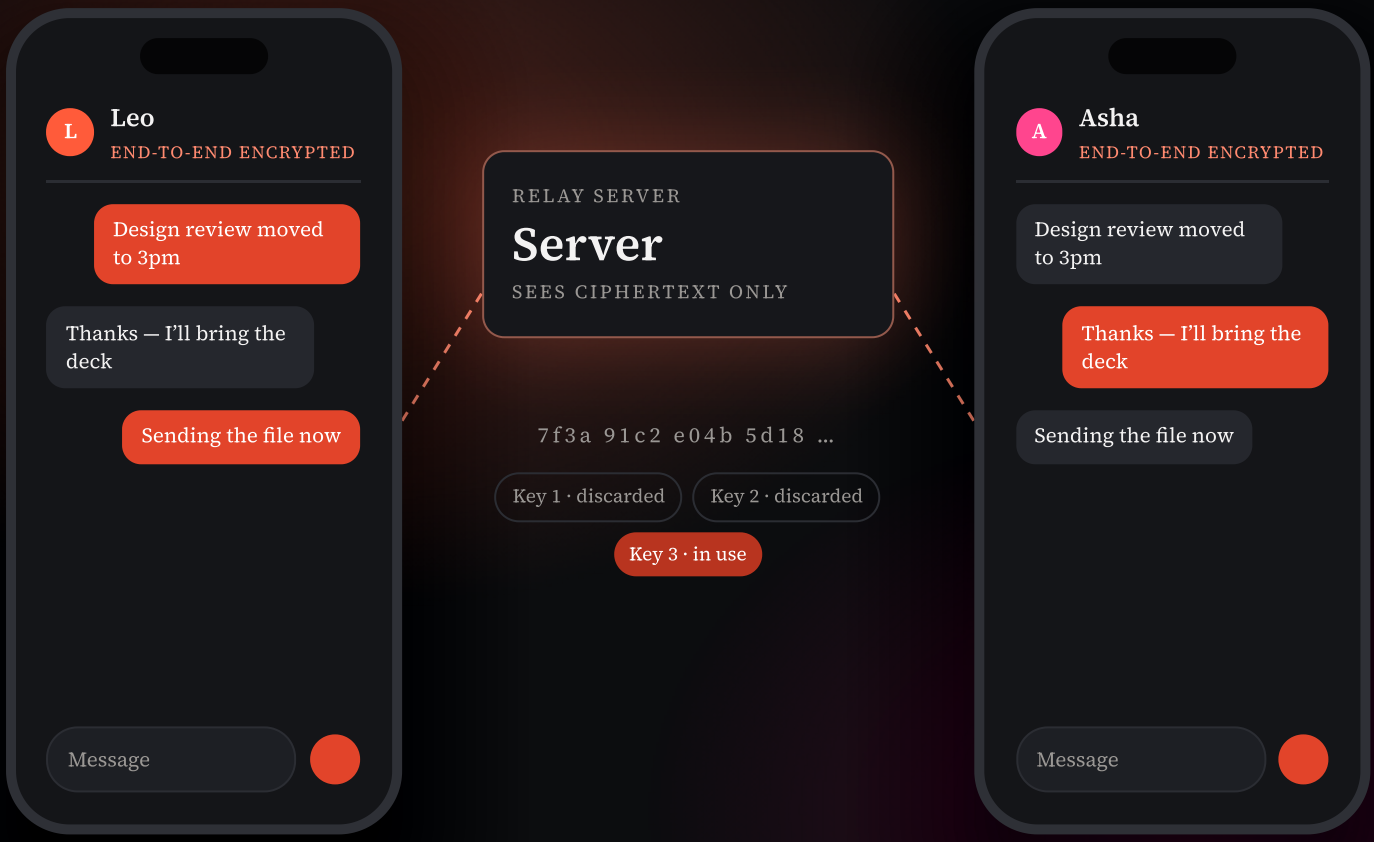
03 Backend & API development

Complete backends — auth, payments, jobs, real-time — in NestJS on PostgreSQL and Redis, sized to scale.

Cleverlyy: 50+ modules and 145 API endpoints in one backend.

4,000+ users served at 99% uptime.

1–3 business-day feature turnaround.



SIGNAL PROTOCOL · X3DH · DOUBLE RATCHET · SEALED SENDER

Every message gets a fresh key, and the key is discarded after use.

04 Encrypted chat apps & security

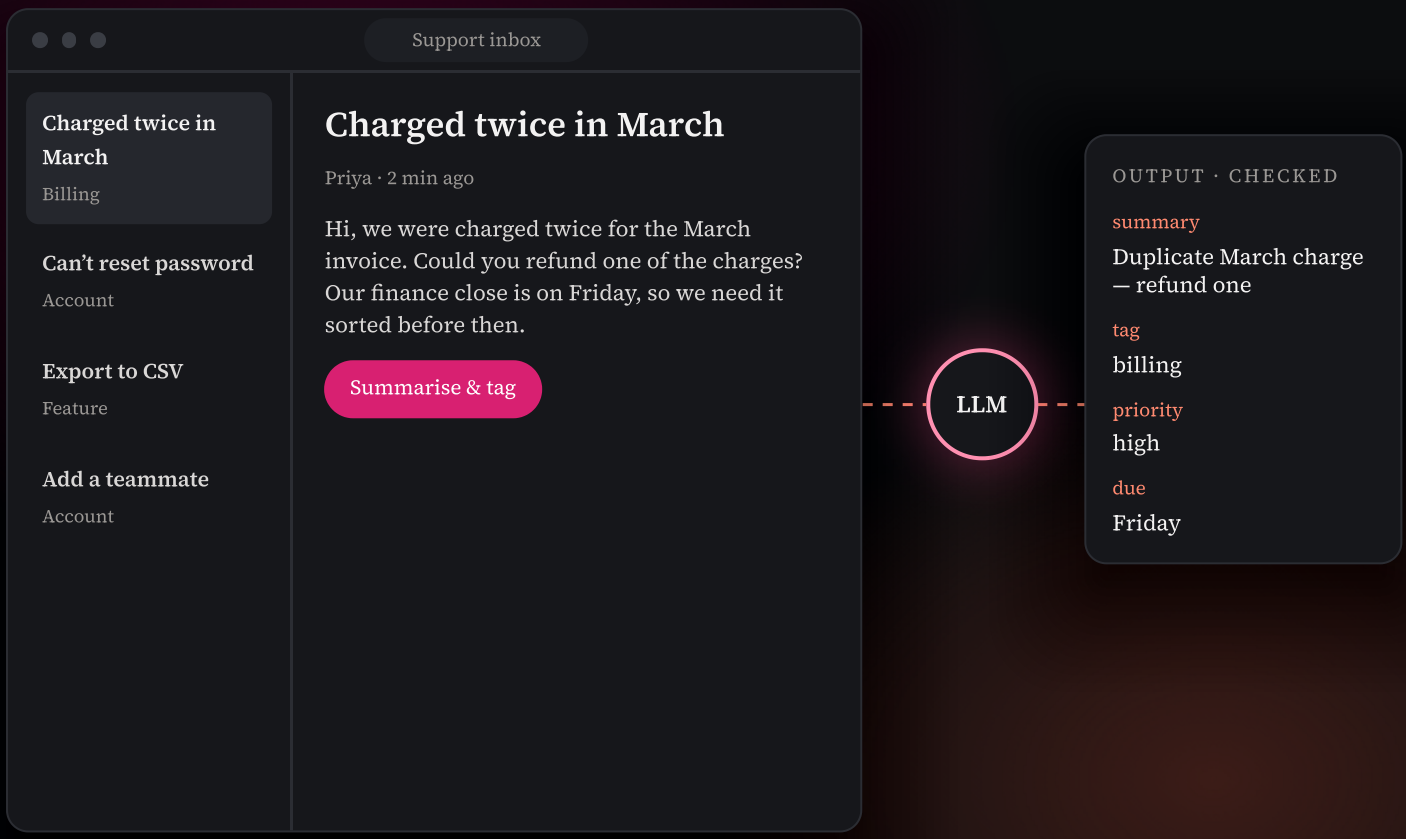
End-to-end encrypted chat apps on the Signal Protocol, encrypted on-device storage, MFA and encrypted file vaults.

Signal Protocol messenger — X3DH, Double Ratchet, Sealed Sender — with multi-device delivery.

@mentions, editing, delete for everyone, search and an MFA-protected file vault.

AES-256 document vault, encrypted at rest and in transit.

LIBSIGNAL · SQLCIPHER · MFA · JWT



AI inside production apps, with output checked before it's used.

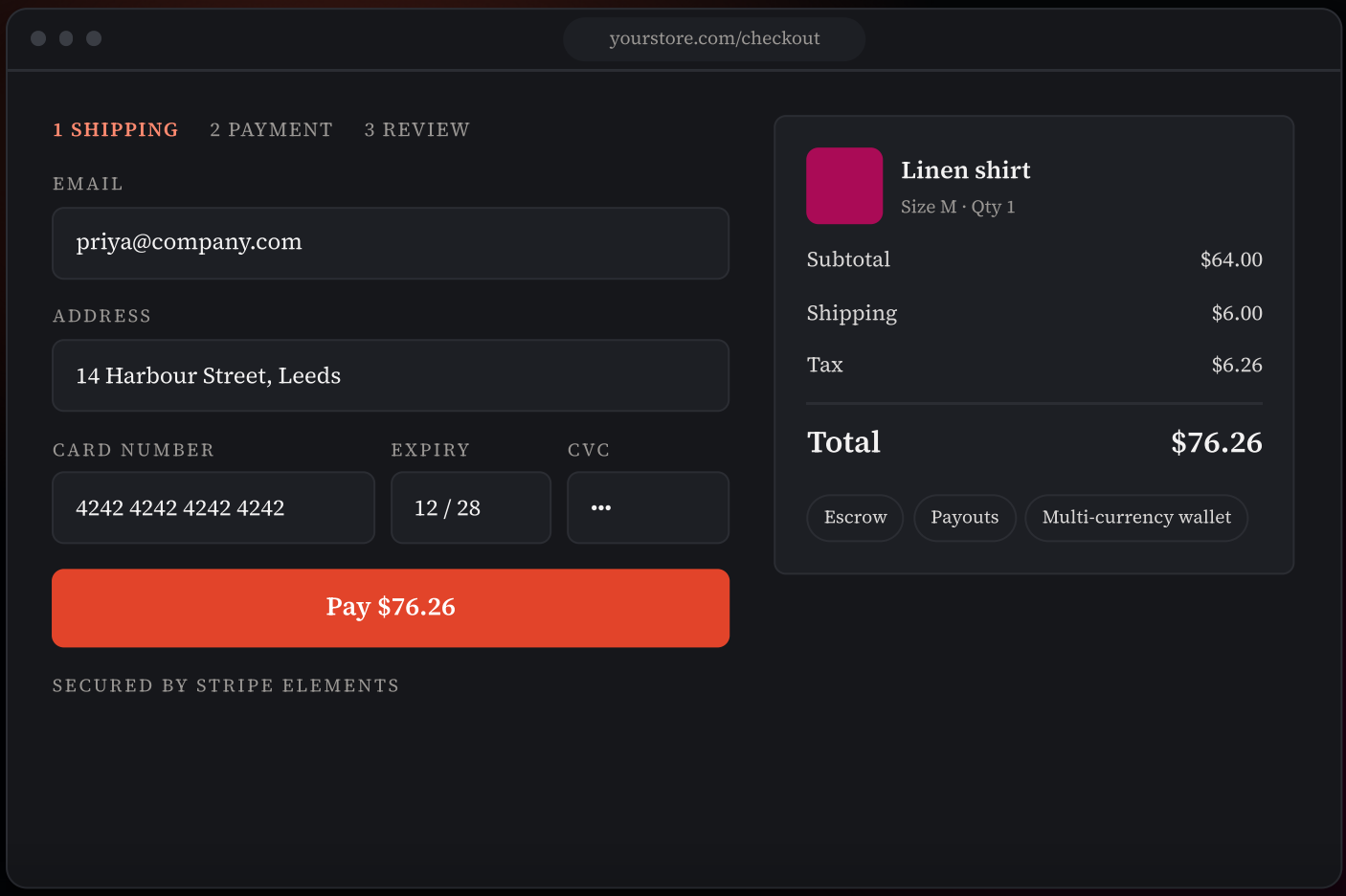
05 AI integration & LLM features

AI added to new and existing apps — chatbots that answer from your own data, LLM features inside real products, and AI pipelines that turn documents into finished work.

An AI-assisted pipeline that generates capital-investment proposals from Excel financial models.

AI/LLM-driven features integrated directly into the Cleverlyy production app.

B.Tech in CSE (Data Science, AI & ML) and 12 Coursera certifications.



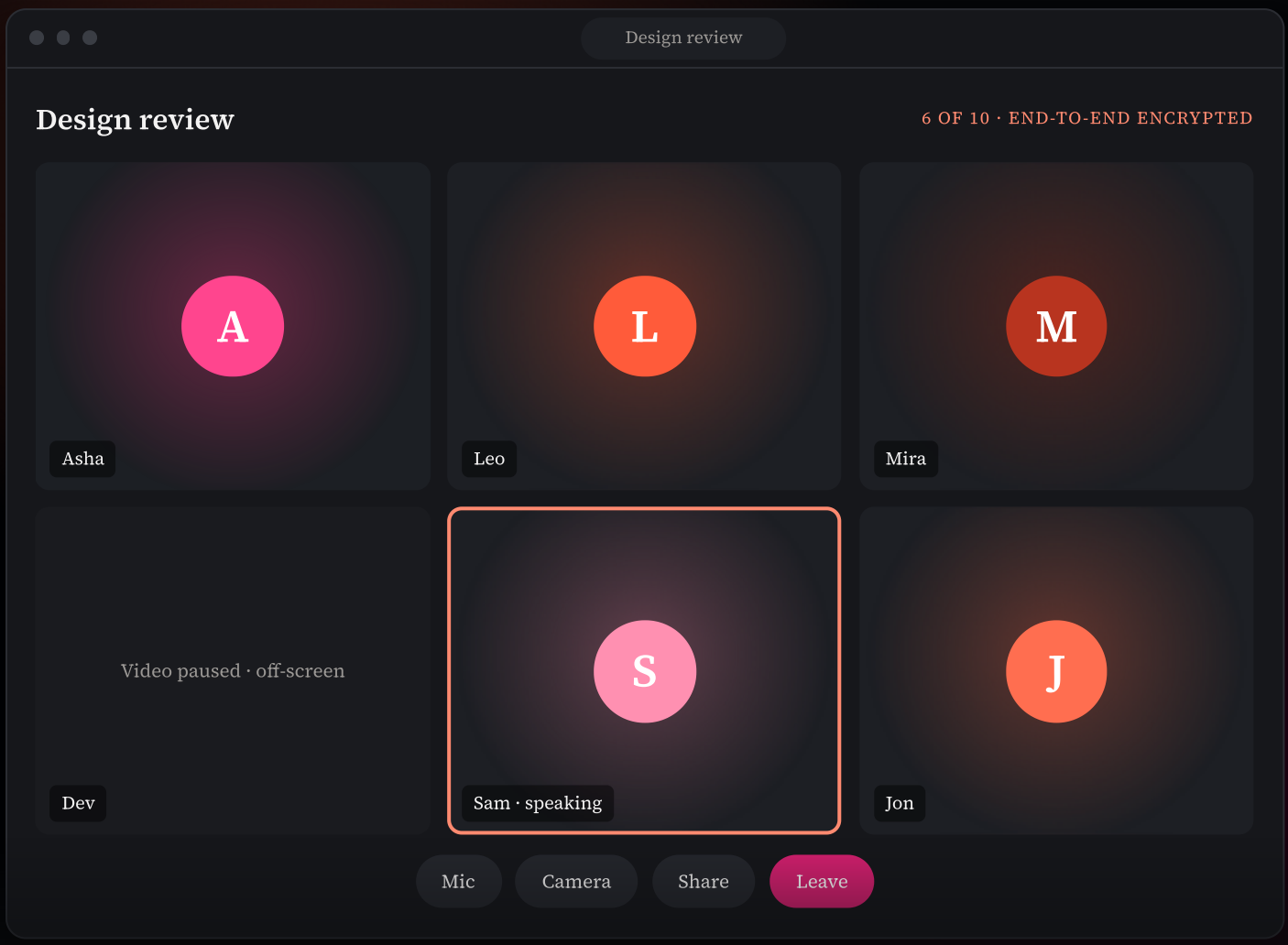
06 E-commerce & Stripe payments

Magento stores, Stripe payments and subscriptions, multi-currency wallets, escrow and payouts.

GuardMaster Fencing: a priced Magento catalogue, fence-run calculator and checkout.

Auto-dispatch to agencies, escrow and payouts, and a multi-currency credit wallet.

Region-based pricing and subscription plans.



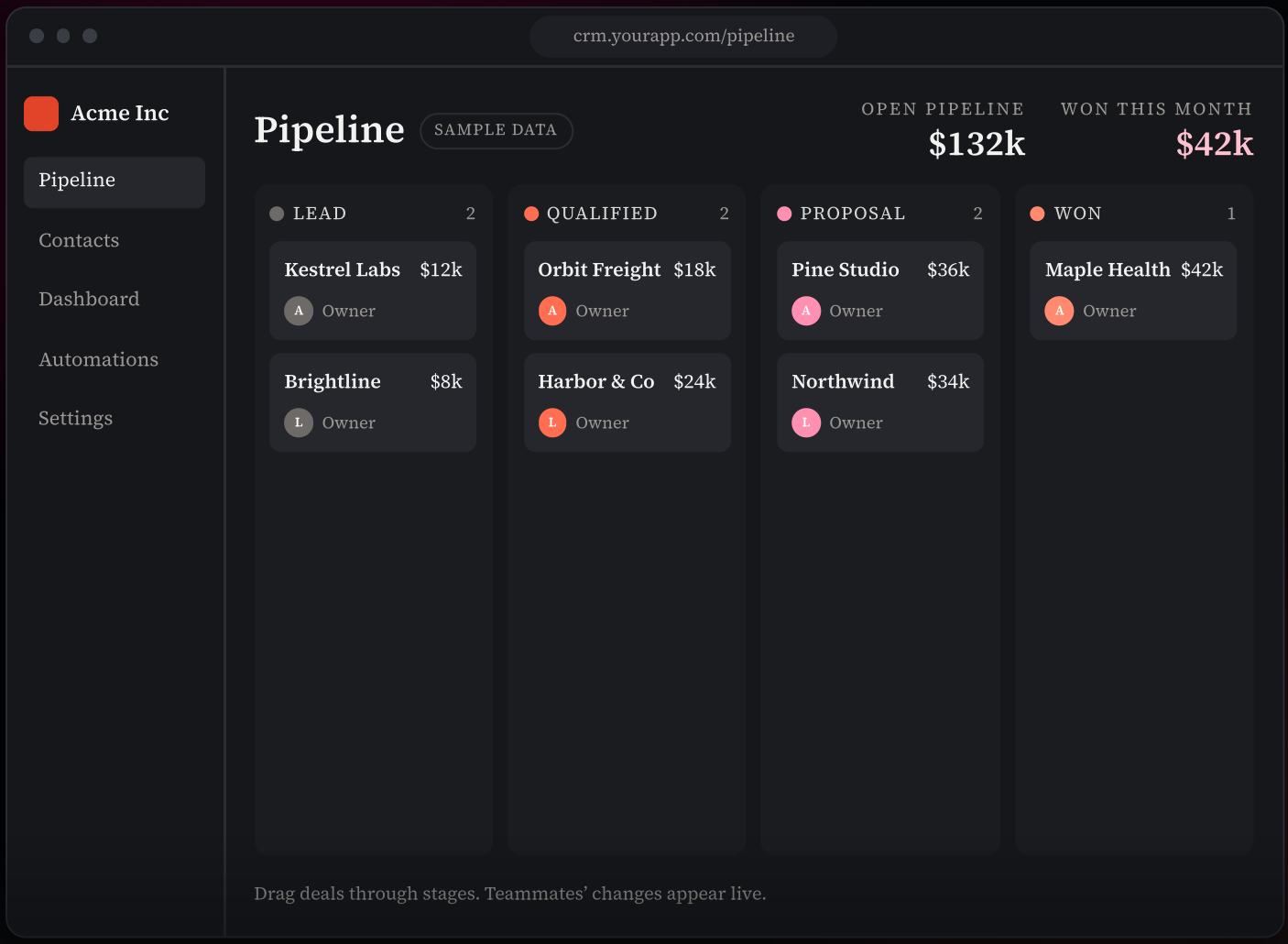
07 Video calling & real-time apps

Group voice and video calling on WebRTC and mediasoup, live GPS tracking and push that rings a killed app.

Group calls scaled from 6 to 10 participants.

Video paused for off-screen participants to save bandwidth.

Calls that ring even when the app is closed.



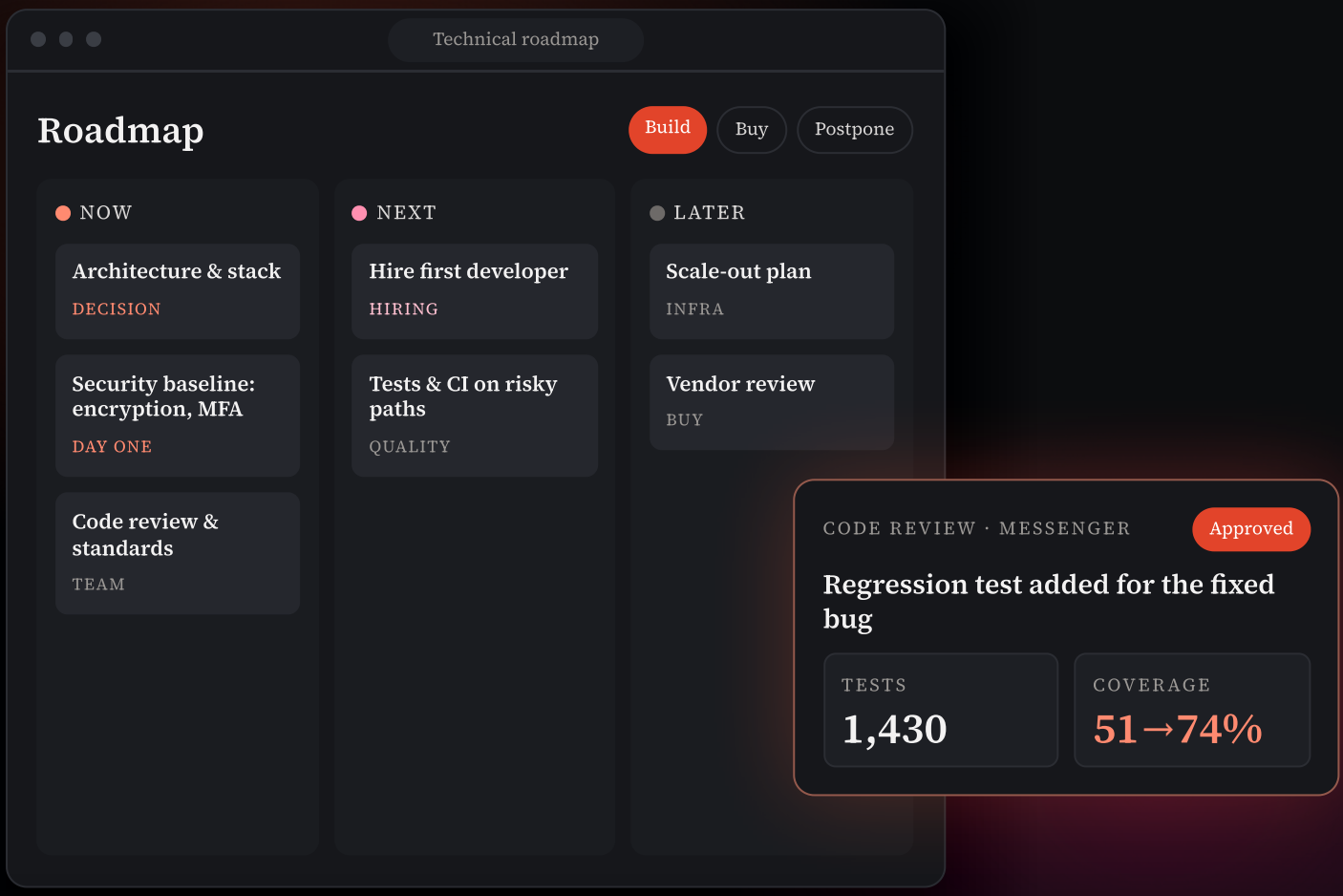
08 Data dashboards & automation

Reporting pipelines and dashboards that replace manual spreadsheet work, used daily company-wide.

Performance dashboards with multi-fiscal-year comparisons, saving 1–2 hours per report.

Reporting that improved decision-making accuracy by 20%.

Processing speed up 25%.



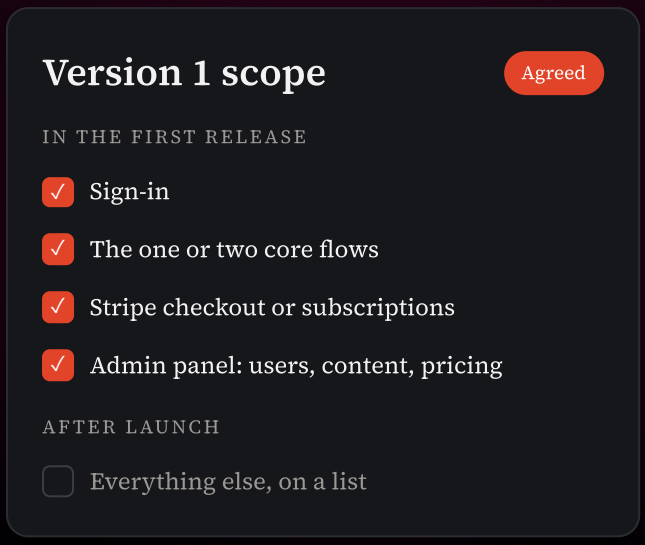
09 Fractional CTO for startups

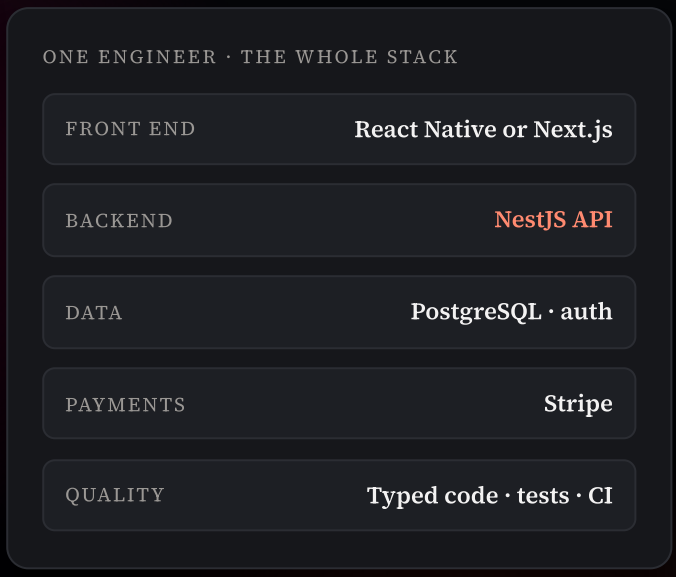
A part-time CTO for startups that need technical leadership before they need a full-time one — architecture, roadmap and delivery, from someone who still writes the code.

Architecture and stack decisions you can build on, and a technical roadmap tied to the business: what to build first, what to buy, and what to postpone.

Code review, standards and tests for your developers — plus help hiring and guiding developers or an agency, and checking what they deliver.

Security from day one: encryption, MFA and careful handling of your users' data. Hands-on building when it matters.







10 MVP development for startups

I build the first version of your product end to end — the app, the backend, payments and the admin panel — scoped to what proves the idea, so you can put it in front of real users.

A scope that fits the idea: the smallest set of features that proves it, agreed before any code is written.

The whole stack from one engineer, so nothing gets lost between teams — with payments from day one if the business needs them.

Built to keep: typed code, tests on the risky paths and CI, so the MVP grows into the real product instead of being rewritten.

Trust me, you'll get it.

Every service in this brochure is backed by work that is live today.

PROOF — SHIPPED IN PRODUCTION

Heritage Vault

ourheritagevault.com

Mobile + web · AES-256 vault

GuardMaster Fencing

guardmasterfencing.com

Magento · priced catalogue

Cleverlyy

cleverlyy.com

4,000+ users · 99% uptime

Bravo Secure

Private repository

Signal Protocol · WebRTC

HOW IT WORKS

01

Tell me the idea

Email or WhatsApp a few lines about what you want built. I usually reply within a day.

02

Scope the first version

We agree what the first release must do, the stack, and how we'll know it works.

03

Build with regular demos

You see working software early and often — not a big reveal at the end.

04

Launch and keep going

It ships, real users arrive, and we keep building on what they do.

WHAT YOU CAN COUNT ON

Quality you can measure

About 1,430 tests on Bravo Secure took coverage from 51% to 74%, with a permanent regression test for each fixed bug.

Security from day one

Encryption, MFA and careful handling of your users' data.

Built to keep

Typed code, tests on the risky paths and CI, so the first version grows instead of being rewritten.

One engineer, end to end

App, backend, payments and admin panel from one person, so nothing gets lost between teams.

Your time zone

Remote, in English. Dhaka's working day overlaps the Gulf's and European mornings.

Credentials

B.Tech CSE (Data Science, AI & ML), First Class. 12 Coursera certifications in ML & Prompt Engineering.

CLIENTS IN **UAE · South Africa · United Kingdom**

Bravo Secure

Encrypted booking platform and Slack-style team messenger for military personnel.

ROLE

CTO · OmniDevX Studio

SINCE

Dec 2025

STACK

Signal Protocol · WebRTC · Mapbox · Stripe

ENGINEERING HIGHLIGHTS

01 Encrypted messenger on the Signal Protocol with @mentions, message editing, delete for everyone, search, multi-device delivery and an MFA-protected encrypted file vault.

02 Group voice and video calls scaled from 6 to 10 participants, video paused for off-screen participants, and killed-app ringing via CallKit/Telecom.

03 Executive Protection missions: a backend session state machine, a CPO app, live GPS tracking with native Mapbox turn-by-turn navigation, and SOS linkage.

04 Booking and payments: auto-dispatch to agencies, escrow and payouts, a multi-currency credit wallet, and region-based pricing and subscription plans.

05 A Next.js ops console with four admin levels, account provisioning, pricing and catalog management, referral campaigns and notifications.

06 About 1,430 tests added, raising messenger coverage from 51% to 74%, with a permanent regression test for each fixed bug.

Heritage Vault

Digital estate planning on mobile and web: life policies, wills and an encrypted vault for the family you leave behind.

TYPE	PLATFORMS	SECURITY	LIVE
Digital estate planning	**Mobile · Web**	**AES-256 vault**	**ourheritagevault.com**

Everything, in order.

Profile, policies, documents, beneficiaries, will and power of attorney — tracked step by step, then sealed in an encrypted vault.

01 Estate readiness at a glance on mobile and web: six milestones, alongside coverage health and vault security.

02 Every life-insurance policy in one place, with coverage, premiums and renewal dates tracked, and a reminder before each premium is due.

03 Wills drafted in the app: executor, assets and heirs mapped, then witnessed and digitally signed.

04 Power of attorney: authorise someone you trust, witnessed alongside the will.

05 A secure vault for documents by category — legal, property & real estate, financial & tax — encrypted with AES-256.

06 Legacy letters: messages sealed today and delivered after a period of inactivity, or on a date you choose.

GuardMaster Fencing

A Magento e-commerce store for a US high-security fencing manufacturer — priced catalogue, fence-run calculator and checkout.

PLATFORM	CATALOGUE	LIVE
Magento	**6 categories · 11 products**	**guardmasterfencing.com**

The store tour runs home, categories, prices, calculator, checkout and order — every product priced, from spider clamps at $0.49 to sliding gates at $736.77.

Cleverlyy

EdTech platform; built the complete backend. Senior Backend Developer, Aug 2024 — Nov 2025.

50+
backend modules

145
API endpoints

4,000+
users served

99%
uptime

01 The complete backend powering the Cleverlyy application.

02 Feature turnaround of 1–3 business days.

03 AI/LLM-driven features integrated directly into the production app.

04 Partnered directly with the CTO on system architecture and roadmap decisions.

Where it shipped.

DEC 2025 — PRESENT

CTO

OmniDevX Studio

Encrypted messenger on the Signal Protocol with multi-device delivery and an MFA-protected encrypted file vault.

Group voice and video calls scaled from 6 to 10 participants, with killed-app ringing.

Executive Protection missions end to end: live GPS, Mapbox navigation and SOS linkage.

DEC 2024 — PRESENT

Executive Engineer

Tex Fasteners (BD) Ltd. / Tex Zippers

AI-assisted pipeline generating capital-investment proposals from Excel financial models.

Performance dashboards used daily company-wide, saving 1–2 hours per report.

Reporting that improved decision accuracy by 20% and processing speed by 25%.

AUG 2024 — NOV 2025

Senior Backend Developer

Cleverlyy (Remote)

The complete backend: 50+ modules and 145 API endpoints serving 4,000+ users at 99% uptime.

AI/LLM-driven features integrated directly into the production app.

THE STACK, IN DEPTH

LANGUAGES
TypeScript, JavaScript, SQL, Kotlin

MOBILE
React Native, Expo, Reanimated, Zustand

BACKEND
NestJS, REST, Socket.IO, Jobs

WEB
Next.js 15, React 19, SWR, Tailwind

DATA
PostgreSQL, Redis, SQLCipher, S3

SECURITY
libsignal, E2EE, MFA, JWT

REAL-TIME
WebRTC, mediasoup, CallKit, Telecom

PAYMENTS
Stripe, Escrow, Wallet, Twilio

DEVOPS
Docker, Actions, EAS, Jest

Intelligence, applied.

A AI-assisted pipeline that generates capital-investment proposals from Excel financial models, including multi-scope equipment ROI modeling.

B AI/LLM-driven features integrated directly into the Cleverlyy production app.

C B.Tech, CSE (Data Science, AI & ML), Lovely Professional University — First Class. Thesis: “Sonar: Mine vs. Stone Predictions.”

D 12 Coursera certifications in Machine Learning & Prompt Engineering.

QUESTIONS PEOPLE ASK

Can you build an app or website like the one I have in mind?

Very likely. I build end to end — mobile apps, web apps, backends, AI features, payments and e-commerce. Tell me the idea and I’ll tell you how I’d build it.

Do you work with international clients?

Yes. OmniDevX Studio works with clients in the UAE, South Africa and the UK from Dhaka (GMT+6) — remote, in English, with regular demos.

Can you be our part-time (fractional) CTO?

Yes — architecture, roadmap, code review and guiding developers, while still building the product myself.

Can you build an MVP for my startup?

Yes. I scope the smallest version that proves the idea and build it end to end — app, backend, payments and an admin panel — so you can put it in front of real users.

Write *to me.*

hello@ranak.bio

A cross-border software studio serving clients in the UAE, South Africa and the UK — from Dhaka, Bangladesh. Email or message me on WhatsApp; usually I reply within a day.

WHATSAPP
wa.me/message/RLJES7YDPYT6D1

CV
ranak.bio/ranak-debnath-cv.pdf

GITHUB
github.com/piyaldeb

LINKEDIN
in/ranak-debnath-7644621b7

SCAN · WHATSAPP

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