

DR. MOHAMMED RAIYAN

AI-NATIVE CTO · VP ENGINEERING · PRODUCT & PLATFORM LEADER

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EXECUTIVE PROFILE

AI-native technology and product leader with **13+ years** turning complex, high-trust ideas into secure products across legal intelligence, public safety, agritech, fintech, healthtech, edtech, computer vision, and real-time collaboration. Combines executive ownership with hands-on architecture across RAG, cloud platforms, mobile, IoT, AR, data, security, and commercialization. Experienced in zero-to-one delivery, organizational scaling, and regulated product environments.

1,250+	Officers supported through agency onboarding
7 → 40+	Engineering organization scale
3M+	Daily agritech data points processed
\$2M	Capital raised for TerraGrow

SELECTED PRODUCTS & PLATFORMS

LEO AI — Secure legal-intelligence RAG platform

AI platform architect and product engineering lead · leoai.ca

- Architected ingestion, chunking, embeddings, vector retrieval, cited answers, grounding, and guardrails for high-trust legal intelligence.
- Built agency administration, officer onboarding, RBAC, usage controls, and credit-based monetization; supported five agencies of approximately 250 officers each.

NEXXUSONE — Multi-agency public-safety collaboration

Platform architect and end-to-end product engineering lead · nexusone.ca

- Delivered secure messaging, agency workspaces, case collaboration, and controlled data sharing for 300+ officers.
- Designed AES-256 protection, MFA/RBAC patterns, auditable workflows, and SOC 2-aligned hosting practices.

WHO'S GOT THE SHOT — Computer vision + mobile AR measurement

Founder, product lead, and implementation lead · whosgottheshot.com

- Built a YOLO training pipeline and native iOS LiDAR/AR measurement workflow for objective lawn-bowls decisions.
- Shipped a live product reported at 98%+ accuracy and under-three-second measurement, with expansion planned for Bocce and related sports.

TABLE AR — Real-time virtual tabletop platform

Product engineering lead for broadcast and multiplayer systems

- Implemented broadcast, synchronized tokens, live calculations, interaction state, and responsive session workflows for 200+ users.

LEADERSHIP EXPERIENCE

TERRAGROW | Founder & Chief Technology Officer

APR 2021 – PRESENT

AI-native IoT agritech platform · concurrent founder venture · \$2M raised

- Architected an ecosystem spanning sensors, cloud services, mobile apps, and transaction systems processing 3M+ daily data points.
- Applied RAG and LLM-powered analytics to crop recommendations; reported 40% lower water use and 25% higher gross margins.
- Scaled the technology team from 7 to 25 and introduced AI-assisted engineering, testing, documentation, and delivery workflows.

DRIVE TECHNOLOGY | Head of Engineering & Product (Contract)

JAN 2022 – MAR 2024

Concurrent contract leadership · fintech, platform delivery, and team scaling

- Led a 40-person cross-functional organization and delivered a fintech marketplace with wallet and payment capabilities in 60 days.
- Introduced AI-assisted delivery and automated testing across CI/CD; reported 30% productivity improvement and 35% fewer defects.

EARLIER EXPERIENCE

INJAZAT | Technical Product Manager — HealthTech

OCT 2021 – JAN 2022

Virtual care · payments · compliance-aware architecture

- Defined enterprise virtual-care specifications spanning telehealth, digital payments, AI-assisted triage concepts, and patient data.
- Supported HIPAA and UAE Health Data Act alignment through encryption, access controls, and audit-oriented requirements.

FRONTIER LEARNING SOLUTIONS | Product Manager — Digital Payments

MAY 2020 – OCT 2021

Edtech wallet · analytics · engagement

- Launched wallet, transaction, rewards, fraud-detection, and peer-to-peer payment features; reported a 25% retention increase.
- Used product analytics to improve registration by 30% and strengthen transaction completion.

LABORATORY LEARNING SOLUTIONS | Senior Product Manager

APR 2019 – APR 2020

Digital STEM education · P&L; ownership

- Led a digital STEM platform launch and managed a \$2M+ product P&L;,, reducing operating costs by 20%.

SAAL.AI | Senior Product Manager — AI & Fintech

SEP 2017 – AUG 2019

Healthcare AI · fintech/edtech prototypes · operating-model improvement

- Delivered three healthcare AI MVPs using machine learning, NLP, and rapid prototyping; reported 30% faster time to market.
- Developed fintech and edtech proof-of-concepts and introduced AI-enhanced project, documentation, and development workflows.

INFOSYS TECH | Senior Project Manager — Enterprise Systems

APR 2013 – JUL 2016

ERP implementation · cross-functional delivery

- Led 20+ engineers and analysts delivering manufacturing ERP implementations; reported 20% lower operational overhead.

CORE CAPABILITIES

AI & DATA	RAG, embeddings, vector search, AI agents, guardrails, OpenAI API, Anthropic, LangChain, LlamaIndex, Python, NLP, YOLO, computer vision, TensorFlow, PyTorch
PLATFORM & CLOUD	AWS, Azure, Google Cloud, Docker, Kubernetes, Terraform, serverless, CI/CD, observability, high availability, PostgreSQL, MongoDB, Redis, Elasticsearch, BigQuery, Snowflake, pgvector
PRODUCT ENGINEERING	TypeScript, Node.js, React, React Native, native iOS/Swift, Kotlin, Flutter, REST, GraphQL, WebSockets, real-time systems, WebGL, Three.js
SECURITY & GOVERNANCE	Multi-tenant SaaS, AES-256, cryptographic protection, RBAC, MFA, audit logs, SOC 2-aligned controls, compliance-aware product design
EXECUTIVE LEADERSHIP	Zero-to-one strategy, organizational design, product operations, team scaling, P&L; ownership, fundraising support, commercialization, board and stakeholder communication

EDUCATION & CREDENTIALS

MBA, Human Resource & Operations Management · University of Liberal Arts Bangladesh, 2015–2017

MBBS, Bachelor of Medicine & Bachelor of Surgery · Punjab Medical College, 2000–2005

Credentials: Project Management Professional (PMP), PMI · Certified Scrum Product Owner (CSPO), Scrum Alliance

Selected leadership outcomes: Built production systems across AI/RAG, public safety, computer vision/AR, IoT, fintech, healthtech, edtech, and real-time collaboration; combined founder-level venture building with hands-on architecture and executive product/engineering leadership.