



TASIN ZARKOOB

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Lead Frontend & AI Engineering Leader

Built AdaniOne to 48 M Users | Driving AI-Integrated Platforms for Energy & Aviation Enterprises

Engineering leader with 13 + years' experience delivering large-scale, AI-integrated, and high-performance digital platforms across EnergyTech, Aviation, and FinTech. Currently Head of Frontend Engineering at Adani AI Labs (Adani-IHC JV), driving adoption of AI-powered web solutions, including Operations Research, Predictive Analytics, and Computer Vision—across Adani Energy Apex (Adani Green, Adani Power, Adani Cement) and Adani Airports.

Previously led architecture of the AdaniOne super-app (48 M users) and Scan-N-Pay (30 K transactions daily). Known for building and scaling engineering teams, implementing micro-frontend architecture with 50 % faster TTI and 30 % faster feature delivery, and aligning technology initiatives with business growth.

KEY SKILLS

Frontend & Architecture

React • Next.js • Typescript • Micro-frontends • PWA • Zustand • ShadCN • Recharts • Framer Motion

Backend & DevOps

Nest.js • Python • Azure • Docker • Kubernetes • Jenkins • CI/CD • Git • Firebase • MongoDB • Postgres

AI & Data Integration

Operations Research Models • Predictive Analytics • Generative AI • Computer Vision • Figma AI • Codex • CoPilot

Leadership & Strategy

Engineering Management • Agile Delivery • Cross-functional Engagement • Team Mentorship • Performance Optimisation

PROFESSIONAL EXPERIENCE

ADANI AI LABS / SIRIUS DIGITECH (ADANI - IHC JV)

Jun 2025 - Present
Gurugram, India

Head - Frontend Engineering (DGM)

- Implemented AI-powered frontend tooling (CoPilot, Codex, Figma AI) to accelerate development cycles **by 35%**.
- Led internal engineers plus multiple vendor teams across Adani Energy Apex entities and delivered **4 Operations Research and 3 Predictive Analytics projects** within 5 months.
- Working with Microsoft and Google on developing **Agentic AI Solutions** across Adani Group.

ADANI DIGITAL LABS

Nov 2021 - May 2025
Gurugram, India

Senior Manager - Technology « Manager - UI

- Led team of 18 developers delivering **12** enterprise apps under **AdaniOne**, scaling platform to **48 M users**.
- Designed and implemented **Scan-N-Pay frontend**, supporting **30 K daily transactions** with 25% faster response times.
- Architected CI/CD pipelines (Jenkins + Kubernetes), enhancing deployment reliability and security.
- Introduced micro-frontend architecture yielding **50% faster TIT** and 30% faster feature delivery.
- Boosted digital adoption of airport services **by 20%** through user-centric design & performance optimization.

MCDERMOTT INC

Aug 2017 - Nov 2021
Gurugram, India

Principal Technology Specialist « Senior Technology Specialist « Application Developer (iOS)

- Spearheaded digital transformation initiatives achieving **95% project transition success rate**.
- Built secure enterprise apps for Oil & Gas operations using Docker, Jenkins, and Rancher.
- Developed PoCs and secured executive buy-in for digital workflows across engineering divisions.

MOMSPRESSO

Nov 2015 - Jun 2017
Gurugram, India

Lead iOS Developer « Senior iOS Developer

- Built flagship iOS app with offline drafting and publishing features, enhancing blogger engagement **by 30%**.
- Developed custom Core Data caching service improving app load times and responsiveness.

CREWCROSS (Startup)

Nov 2015 - Sep 2016
Gurugram, India

Technical Co-Founder & Lead iOS Developer

- Designed and built social app prototype for student community engagement; secured seed-stage funding.
- Drove UI/UX and product vision used for investor presentations and pitch success.

EARLIER EXPERIENCE

2011 - 2015
Scotland, United Kingdom

- **NN4M (UK)**: Delivered retail apps for Mothercare and River Island.
- **Lothianious Ltd (UK)**: Promoted from Intern to Lead Developer; architected SQL and REST APIs.
- **Freelance - Taazuh / Zitam / Super Ornaments**: Built custom mobile apps and retail solutions for UK clients.

EDUCATION

EDINBURGH NAPIER
UNIVERSITY

2010 – 2011

Edinburgh, Scotland, UK

BENG Software Engineering

- "Fundamentals of Parallel System (Lego NXT Robots)", "Algorithms and Data Structure", "Software Engineering", "Advanced Database Systems; Object Oriented Software Development", "Mobile Application Development"
- Achieved 82% marks, Distinction – Verified by WES

EDINBURGH COLLEGE

2008 – 2010

Edinburgh, Scotland, UK

HND, Software Development

- "Data Structure Object Oriented Programming", "Testing Software", "Mathematics, Calculus and Matrices", "Project Management for IT", "Computer Systems Fundamentals", "Professionalism and Ethics in Computing".
- Achieved 90% marks, Distinction – Verified by WES.

NOTABLE PROJECTS

ADANI DIGITAL LAB

Multi-Airport Digital Experience Platform (AdaniOne)

- Architected and led the development of a unified frontend platform serving 7 airports, implementing a micro-frontends approach for modular and scalable development.
- Integrated diverse services including Duty-Free shopping, Food & Beverages, Scan-N-Pay with AdaniOne, Car Parking, and Cab Booking into a cohesive user experience.
- Resulted in a 35% increase in digital engagement across airports and a 20% boost in ancillary revenue through improved service discoverability.

ADANI DIGITAL LAB

Near Real-time Operational Dashboard for Scan-N-Pay

- Designed and developed a high-performance React-based dashboard for scan-n-pay operations, featuring auto-refreshing capabilities for near real-time order tracking.
- Implemented efficient state management and optimized rendering techniques, reducing latency by 40% and improving operator response time by 25%.
- The dashboard processes over 10,000 transactions daily across multiple airports, providing critical insights for operational decision-making.

ADANI DIGITAL LAB

Progressive Web App for Food & Beverage Kiosks (Beta)

- Driving the innovation of an advanced Progressive Web App (PWA) kiosk solution for food and beverage providers at airports, set to revolutionize the airport dining experience.
- Utilizing advanced PWA techniques to ensure offline functionality, fast load times, and a native-like user experience.
- Implementing a scalable architecture to support future expansion across all Adani airports.
- Beta phase successfully launched, with full deployment planned for September 2024, expected to increase F&B sales by 30% and reduce queue times by 50%.

CERTIFICATION

- Digital Technologies for Transformation by Adani
- Implementing Digital Transformation by Adani
- React Certified Developer by Udemy
- Next.js Advanced Features and Deployment by Vercel
- Node.js Certification by Linux Foundation
- Certified PI Talent Optimizer by Predictive Index
- Certified ScrumMaster (CSM) by Scrum Alliance
- Azure DevOps AZ-900 & AZ-400 (in progress)

HONORARY AWARDS

- ADL Catalyst by Adani Digital Labs
- MDR Rising Talent by McDermott Inc