MOHAMED IRFAN



Full Stack Engineer | Node.js • React • Next.js • TypeScript • AWS Cloud & DevOps

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PROFESSIONAL SUMMARY

Pragmatic, outcome-oriented **Full Stack Engineer** with **3.5+ years** of software engineering experience building enterprise-grade ERP, multi-tenant CRM, HRMS and SaaS platforms using **Node.js, Express, React, Next.js, TypeScript, MySQL and MongoDB**. Architected a GPS-driven **Work Route & Visit Management Module** featured in an official client case study, increasing field-sales efficiency by **35%+** for a UAE healthcare distributor. Hands-on with production cloud infrastructure on **AWS (EC2, ECS, ECR, S3, RDS, ELB, Auto Scaling), GCP, Docker, Kubernetes and Terraform**. Independently builds and ships products: **three Shopify apps** (including **ProfitLens**, live on the Shopify App Store), a **rooftop-solar operations platform**, business web platforms, and **Android apps and games** with automated APK pipelines. Backed by a **10-year engineering career across the GCC and India**, bringing disciplined systems thinking, client coordination and cross-functional leadership.

TECHNICAL SKILLS

Languages & Runtimes: JavaScript (ES6+ / ES2024), TypeScript, Node.js (Event Loop, Streams, Worker Threads), Python (OS/AWS automation), PHP, Bash, SQL, HTML5, CSS3

Frontend & UI: React.js, Next.js (App Router, Server Components, Server Actions), React Native (Expo), Redux Toolkit, React Query, Context API, Tailwind CSS, Ant Design, Shopify Polaris & App Bridge, Bootstrap, SASS/SCSS, Vue.js, jQuery, EJS, WordPress, Technical SEO (JSON-LD / Metadata API), Web Vitals optimisation

Backend & APIs: Express.js, Fastify, RESTful APIs, GraphQL (Shopify Admin API), Webhooks (Meta Lead Ads API, Shopify), Multi-Tenant Isolation, GPS Geo-Tracking & Location Services, Role-Based Access Control (RBAC), WhatsApp API & Call Logging, JWT Auth & Cookies, OAuth, Rate Limiting & Security Sanitisation, Stripe Payments, Prisma, Sequelize ORM, Mongoose

Databases: MySQL, PostgreSQL, MongoDB / Atlas (Aggregation Pipelines, Geospatial Queries, Indexing), Redis, AWS RDS, IndexedDB

AWS & Cloud: EC2, S3, RDS, ECS, ECR, ELB, Auto Scaling, VPC, IAM, Route 53, CloudWatch, Lambda, EBS, Elastic Beanstalk, CodeCommit, SNS, GCP, DigitalOcean, Render

DevOps & CI/CD: Docker, Kubernetes, Terraform (IaC), Jenkins, GitHub Actions, GitLab CI/CD, Maven, SonarQube, Linux, Nginx, PM2, Git

Shopify, Mobile & Games: Shopify App development (OAuth install flow, Theme App Extensions, webhooks, billing, GDPR compliance, App Store listing), Android WebView packaging with signed APK builds, HTML5 Canvas game development

Testing, Tools & AI: Playwright (E2E), Jest, Postman, Jira, Figma, Adobe Photoshop / Illustrator / Premiere Pro, AI-assisted development (Claude, GitHub Copilot, Amazon Q, RAG)

PROFESSIONAL EXPERIENCE

Triac Solutions IT Consultancy LLC — Dubai, UAE
January 2025 – Present

Software Engineer (Full Stack) — *Remote*

- **Enterprise Work Route & Geo-Tracking:** Architected the end-to-end Work Route Module for ForthERP with live GPS stream tracking, waypoint timelines, area-based automated route planning and background auto-checkout; showcased as an official corporate case study delivering a **35%+ increase in daily verified visits** (10–11 to 14–15 stops/rep) for Al Nahda Medical Store LLC, UAE.
- **SaaS & Multi-Tenant Architecture:** Architected a multi-tenant CRM module later packaged into a standalone commercial SaaS platform; eliminated cross-tenant data leaks with organisation-scoped query middleware.
- **Quotation Management & Multi-Level Approval (RBAC):** Engineered quotation pipelines with multi-tier approval workflows governed by granular role-based access control, preventing unauthorised discounts.
- **Core ERP & Payroll:** Unified attendance tracking and payroll engines with dynamic salary components and region-specific final-settlement workflows (India & GCC compliance).
- **Next.js Modernisation & SEO:** Led the frontend overhaul of public-facing platforms using Next.js (App Router) and Tailwind CSS with dynamic Open Graph tags, JSON-LD schema and image optimisation, achieving **90+ Lighthouse** performance scores.
- **CRM Automation, WhatsApp & Ingestion:** Built webhook ingestion for Meta Lead Ads, instant lead distribution, WhatsApp messaging and call-log tracking, debounce guards against duplicate tasks, and automated field-staff checkout.
- **Document Workflows & Reporting:** Standardised server-rendered PDF layouts for ERP vouchers (Quotation, Sales, Purchase Orders) and built multidimensional aggregation reports with persisted filters.
- **Testing, Quality & Mentorship:** Implemented Playwright and Jest regression suites, conducted code reviews, enforced TypeScript interfaces and mentored junior developers.

Riosis India Pvt Ltd — Kerala, India
November 2023 – December 2024

Full Stack Developer — *On-site (initial 2 months) & Remote*

- Delivered pixel-perfect, responsive web platforms from Figma designs using React.js, Vue.js, Node.js, PHP, Laravel and Tailwind CSS.
- Implemented tracking, security and analytics using Google Tag Manager, Google Analytics and reCAPTCHA across client web applications.
- Maintained Git branching workflows and API contracts in Agile sprints; troubleshot and debugged to maximise uptime and performance.

Technavis Web Solutions LLC — Kerala, India
December 2022 – September 2023

Full Stack Web Developer — *Hybrid*

- Engineered scalable single-page applications using React.js functional components and Redux store architecture.
- Developed and secured RESTful APIs with Node.js, Express.js and MongoDB, covering data modelling, CRUD pipelines and index optimisation.
- Built permission-based authentication, JWT verification and custom Node.js middleware proxies for secure server-side interactions.

Independent Software Engineering Transition & Upskilling **February 2022 – November 2022**

- Completed intensive full-stack curricula (modern JavaScript, React, Node.js) and deployed full-stack portfolio applications before commercial roles.

INDEPENDENT PRODUCTS & PROJECTS

ProfitLens — Shopify App (Founder & Lead Developer) **April 2026 – Present**

- Designed, built, published and host a live Shopify App Store app that calculates merchants' true net profit after product costs, shipping, fees and ad spend. Built with Polaris, App Bridge, Node.js and the GraphQL Admin API, with merchant OAuth, webhooks, billing and GDPR compliance; hosted on Render.

Earlier Client Websites **2022 – 2024**

- Ask Dr. Nandi, Daya General Hospital, Daya Royal Hospital, MES Medical College, UCCIMT College, CK Creatives and BMIPC, built with PHP, JavaScript, jQuery, Bootstrap and CSS.

AI-Assisted Builds (Claude, Claude Code) — *I own product design, requirements, architecture decisions, testing, deployment and publishing.*

SwiftReel & StockOut Guard — Shopify Apps **2026**

- **SwiftReel:** shoppable-video app letting merchants publish videos with product tagging on their storefront, built with Polaris, React Router, a Theme App Extension, Prisma and MongoDB.
- **StockOut Guard:** a further Shopify app designed and deployed end-to-end, covering the OAuth install flow, webhook handling, hosting and App Store submission.

Solar Platform — Operations Software for Rooftop-Solar Companies **2026**

- Designed and launched a bilingual (English/Malayalam) platform covering leads, site surveys, quotations and installations, with a web app and Expo mobile app on Fastify, Prisma and PostgreSQL.

Splashcraft: Poster & Flyer — Android App **2026**

- Designed and shipped a poster and flyer design app with a canvas editor, templates, background removal, magic eraser, resize and filter tools, and offline storage (IndexedDB); signed Android release builds generated through GitHub Actions.

Games — Blade of the Wilds, Fill Sorting Game, Grenadder **2026**

- Designed and shipped three games packaged as Android APKs. **Blade of the Wilds** is an HTML5 pixel-art action platformer with 9 stages, boss fights, combo combat and touch controls, hosted on GitHub Pages with automated APK builds via GitHub Actions.

Business Web Platforms — 4ienggerp, BayFlow **2026**

- Designed and deployed two further business web platforms, owning requirements, UI direction, testing, deployment and hosting.

PRIOR PROFESSIONAL EXPERIENCE (MECHANICAL ENGINEERING)

10-year engineering career leading technical operations, client coordination, vendor teams and project lifecycles across the GCC and India:

- **ModernTech United LLC** (Muscat, Oman) — Project Engineer (Dec 2018 – Jan 2022)
- **HydroSERV Technology Oilfield LLC** (Abu Dhabi, UAE) — Mechanical Engineer, Design & Production (Feb 2017 – Nov 2018)
- **Electrolaice Manufacturing LLC** (Ajman, UAE) — Mechanical Engineer / Product Manager (Nov 2015 – Feb 2017)
- **Eagle DWC LLC** (Dubai, UAE) — Mechanical Design / Asst. Project Engineer (Oct 2014 – Oct 2015)
- **Omega Techniks** (Chennai, India) — Die Tool Design Engineer (Sep 2011 – Jun 2013)

EDUCATION & CREDENTIALS

B-Tech in Mechanical Engineering — Govt College of Engineering Trivandrum (CET), Kerala, India (2007 – 2011) | First Class

- **Decoding DevOps – Complete DevOps Learning Path** (Imran Teli, 2026): AWS (EC2, S3, RDS, ECS, ECR, ELB, Auto Scaling, VPC, IAM, Route 53, CloudWatch), GCP, Docker, Kubernetes, Terraform (IaC), Jenkins, GitHub Actions, GitLab CI/CD and AI automation (Copilot, Amazon Q).
- **Node.js, Express, MongoDB & More: The Complete Bootcamp** (Jonas Schmedtmann): Node.js architecture (Event Loop, Streams, Thread Pool), RESTful APIs, Mongoose data modelling, aggregation pipelines, geospatial queries, JWT authentication, rate limiting and Stripe payments.
- **The Ultimate React Course** (Jonas Schmedtmann): React internals, Next.js App Router (RSC, Server Actions), Redux Toolkit, React Query, Context API and performance optimisation.
- **The Complete JavaScript Course** (Jonas Schmedtmann): ES6+/ES2024, closures, prototypal OOP, asynchronous event loop and modular tooling.
- **The Complete Web Development Bootcamp** (Angela Yu): full-stack foundations and SQL/NoSQL databases.
- **100 Days of Code: The Complete Python Pro Bootcamp** (Angela Yu) — in progress.

Languages: English, Malayalam, Hindi