Saman Shakil Khan

Software Engineer/Developer

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PROFESSIONAL SUMMARY

Frontend-focused Software Engineer with 2+ years of experience delivering production React/TypeScript applications for mobility operations, subscriptions, analytics, and automation. Primary frontend owner of complex admin platforms, with expertise in Next.js, reusable UI architecture, performance, responsive design, D3/Mapbox visualizations, REST APIs, Python/Kafka integrations, and AWS deployments. Delivered ~70% analytics infrastructure cost reduction and 30% improvement in debt recovery.

EXPERIENCE

Udrive – Rent-a-Car | Dubai, UAE | Software Engineer/Developer | Aug 2024 – Present

Internal Operations & Analytics

- **Primary frontend owner for a React + MUI internal operations platform spanning customers, verifications, reservations, invoices, vehicles, damage reports, credits, fines, claims, analytics, mobility operations, and admin tooling.**
- Built and evolved analytics for Trip Revenue, Cleaning, RTA Parking, Customer Stats, Metrics (D3), and TARS, with reusable filters, responsive visualizations, and CSV exports; delivered a date-filtered RTA parking report download.
- Built Mapbox-based mobility and fleet operations interfaces, including near-real-time driver tracking, ride management, vehicle assignments, and operational controls.
- Delivered live running-trip and ignition-on monitoring, limo ride pagination/date filters, and damage review workflow improvements; enhanced operational visibility and reduced manual reporting effort.
- Built an in-app Banner Studio with draggable/resizable layers, templates, undo/redo, previews, and HTML/JSON import/export.
- Owned frontend architecture, reusable React/MUI components, protected routing, RBAC interfaces, code reviews, regression checks, and production troubleshooting.

Subscription, CRM & Fleet Operations

- Primary frontend contributor to the React monthly subscription admin platform across CRM, customer/KYC, subscriptions, fleet, billing, product catalog, analytics, and role-based administration.
- Built the lead-to-deal Kanban pipeline, stage transitions, filters, assignments, reporting, and personalized WhatsApp outreach.
- Developed customer and fleet consoles for verification, vehicle status, MapLibre mapping, hardware controls, reservations, and damage reporting.
- Implemented subscription car assignment, invoice and product management, pricing/mileage packages, and D3 funnel analytics.
- Migrated both internal operations and monthly subscription dashboards to Vite, improving developer startup and application loading responsiveness; supported AWS EC2, Nginx, HTTPS, and GitHub Actions release workflows.

Customer-Facing Web Development

- Completed development of a bilingual English/Arabic customer website in Next.js App Router, TypeScript, and CSS Modules, based on Figma designs; awaiting production launch.
- Implemented responsive routes for rentals, subscriptions, fleet, business, help, articles, and other content, including RTL support, reusable components, and technical SEO.
- Improved site performance through responsive imagery, optimized WebP assets, deferred Lottie animations, font and asset loading, and Lighthouse/PageSpeed reviews.
- Validated release readiness through Playwright/browser automation, Lighthouse/PageSpeed audits, regression testing, and production build checks.

KYC & Verification Automation

- Contributed to production Python/FastStream and Kafka-based KYC automation integrating OCR, face/liveness checks, AWS S3, Postgres, and approval/rejection decisions.
- Maintained Emirates ID, driving licence, and passport validation, including document eligibility, expiry, identity matching, and fraud checks.

Platform Automation & Observability

- Delivered serverless invoice automation that improved debt recovery by 30% and reduced manual operational effort.
- Migrated analytics to self-hosted Apache Superset, reducing analytics infrastructure costs by ~70%; supported Kafka-based monitoring and operational visibility.

Arata International FZC (Bahwan International Group) | Dubai, UAE | IT Intern | Feb 2024 – Jun 2024

- Built a React Native (Expo) used-vehicle marketplace application with profiles, listings, and bidding flows.

- Developed .NET REST APIs and supported rental/leasing data operations and business intelligence reporting.

Recognition: Certificate of Appreciation for successful completion of the Engineering & Technology Services Division internship.

Dubai Technologies | Dubai, UAE | Software Intern | Jul 2023 – Aug 2023

- Developed responsive desktop GUIs using Python (Tkinter, PyQt) and collaborated with cross-functional teams to translate requirements into deployable software solutions.

TECHNICAL SKILLS

Frontend: React.js, Next.js, TypeScript/JavaScript, HTML/CSS, responsive UI, MUI, Vite, CSS Modules, Redux, D3.js, Mapbox/MapLibre, React Router, React Native (Expo)

Backend & Integration: Python, REST APIs, FastStream, Kafka, Node.js/Express, .NET, Pydantic, JWT/OAuth2

Cloud & DevOps: AWS (EC2, S3, CloudFront, Route 53, CloudWatch), Nginx, Cloudflare, GitHub Actions, CI/CD

Data & Monitoring: Apache Superset, Apache Kafka, PostgreSQL, MS SQL Server, Apache Airflow, Firebase

Tools & Quality: Git/GitHub, Google Lighthouse, PageSpeed Insights, Playwright, Jira, Confluence, Figma

EDUCATION

B.Tech in Computer Science Engineering – Manipal Academy of Higher Education, Dubai | Graduated 2024

PROFESSIONAL DEVELOPMENT

Mathematics for Machine Learning — Imperial College London, Coursera (2021) • Object-Oriented Programming in Java — UC San Diego, Coursera (2021) • Introduction to Networks & IoT Fundamentals — Cisco Networking Academy (2023) • Blockchain Foundation & Ethereum Fundamentals — Kerala Blockchain Academy (2023)