

Ichrak MANSOUR

Software Engineer

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SUMMARY

Full-Stack Software Engineer specialized in **JavaScript, TypeScript, React, React Native, Next.js**, and **Node.js**, with strong experience building scalable platforms, automation tools, and real-time applications. Proven ability to deliver production-ready systems such as web-scraper editors, monitoring platforms, and mobile apps across security, travel, and healthcare industries. Passionate about clean architecture, performance, and intuitive UI/UX, with solid expertise in API design, microservices, Puppeteer automation, and CI/CD. Immediately available for new opportunities.

JOB HISTORY

Software Engineer , <i>Profectus-IT</i>	04/2024 - Present Belgium
Software Engineer , <i>Amadeus</i>	09/2022 - 04/2024 Belgium
Full Stack Developer , <i>CXG</i>	01/2021 - 07/2022 Tunisia
Full Stack Developer , <i>Alaxione</i>	03/2019 - 12/2020 Tunisia
Full Stack Developer , <i>Trimakus</i>	09/2018 - 03/2019 Tunisia
Full Stack Developer , <i>IMAGINO</i>	01/2018 - 08/2018 Tunisia

TECHNICAL COMPETENCIES

Languages: JavaScript, TypeScript, ES6, Python

Frontend: React, React Native, Next.js, Vue.js, Redux, HTML5, Styled Components, Bootstrap, Ant Design, Material-UI, React Hook Form, Formik, CSS variables, theming strategies, Tailwind CSS, CSS3

Backend: Node.js, Express, REST APIs (OpenAPI/Swagger), Node-RED, Puppeteer, JWT, OAuth2, Python and Java for backend scripting and integration.

Databases: MySQL, MongoDB, PostgreSQL, MariaDB

Testing & Debugging: Jest, Mocha, Postman (API testing), Playwright, Unit & Integration Testing, Chrome DevTools

DevOps & Infrastructure: Docker, GitLab CI/CD, GitHub Actions, Azure Pipelines, Jenkins, SonarQube (Quality Gates), AWS, Azure

Monitoring: Grafana, Prometheus

Scraping & Automation: Puppeteer, Playwright, Node-RED, Browser Automation, Web Scraping,

Security & Code Quality: SAST, DAST, Dependency Scanning, Secure Code Refactoring, Error Handling Architecture

Methodologies: Agile (Scrum, SAFe)

LANGUAGES

Arabic
Native

French
Fluent

English
Fluent

RELEVANT EXPERIENCES

Real-Time Security Device Monitoring Platform, *Profectus-IT*

04//2024 - Present

- Developed a large-scale, real-time monitoring platform for critical infrastructures, tracking device health, operational events, and security incidents from thousands of sensors and cameras.
- Built high-performance front-end dashboards using **React**, **TypeScript**, **Redux Toolkit**, **React Hooks**, and **TailwindCSS** for live monitoring and alert visualization.
- Designed scalable backend microservices with **Node.js**, **TypeScript**, and **Express**, handling data ingestion, event processing, and low-latency alert distribution.
- Refactored and secured legacy APIs in compliance with **OpenAPI** specifications and **OWASP** security standards, improving frontend-backend communication reliability.
- Strengthened platform reliability with unit and integration testing using **Jest** and improved security through dependency auditing and vulnerability remediation.
- Implemented automated **GitLab CI/CD** pipelines and contributed to architecture documentation to support scalable deployments and cross-team alignment.

Automation & Scraper Ecosystem Engineering for Travel Platforms, *Amadeus*

Berchem, Antwerp

- Designed and developed a no-code web-scraper editor using **React.js** and **TypeScript**, enabling internal teams to visually build, configure, and run complex scraping pipelines without writing code.
- Built a modular scraper editor architecture (Script Builder, Context & Parameters, Results Preview) generating dynamic **Puppeteer** scripts from interactive UI workflows.
- Engineered a scalable automation engine in **Node.js** and **TypeScript** using **Puppeteer**, supporting session handling, proxy rotation, rate limiting, retries, and dynamic content rendering.
- Developed reusable **JavaScript / TypeScript** templates so non-technical users could assemble scraping logic visually while producing production-ready automation scripts.
- Extended the platform with custom **Node-RED** nodes in **JavaScript**, enabling API integrations, authentication flows, validation rules, and smart retry mechanisms.
- Improved reliability, security, and delivery by implementing **Azure Application Insights** logging, enforcing **TypeScript strict mode**, modern linting/testing standards, and automated **Azure DevOps CI/CD** pipelines.

Client & Coaching Management Platform enabling secure access, guided workflows, and synchronized customer-experience data, *CXG*

Tunisia

- Led development of two flagship products: CXG Mobile App built with **React Native** for international luxury brands, and a Customer Management Admin Module using **React** and **Node.js**.
- Designed and implemented a complete **React Native** design system with reusable components, theming, animations, and accessibility support across **iOS** and **Android**.
- Optimized mobile performance using **FlatList** virtualization, lazy loading, and memoization, significantly improving responsiveness on low-end devices.
- Developed secure backend APIs with **Node.js** and **Express**, implementing **JWT** authentication, refresh tokens, permission layers, and advanced filtering for coaching analytics.
- Migrated critical application flows to **TypeScript**, improving code quality, reducing runtime errors, and long-term maintainability.
- Delivered analytics dashboards with **React** and **Styled Components**, mentored engineers, established testing and CI workflows, and successfully launched the app on the **App Store** and **Play Store** across Europe & MENA.

Healthcare Scheduling & Teleconsultation Platform enabling real-time appointments, patient workflows, and teleconsultation during COVID, *Alaxione*

France

- Modernized a healthcare platform using **React**, **Redux**, **Material-UI**, and **TypeScript**, improving performance, accessibility, and cross-device compatibility.
- Built complex UI workflows including real-time appointment calendars, drag-and-drop interactions, multi-role dashboards, and patient scheduling systems.
- Migrated legacy class components to **React Hooks** and custom hooks, simplifying business logic and increasing code reuse and maintainability.

- Developed RESTful APIs with **Node.js**, **Express**, and **MySQL**, handling patient records, reminders, and fine-grained authorization rules.
- Delivered a secure teleconsultation solution using **WebRTC**, enabling encrypted video calls, document sharing, and real-time doctor-patient communication.
- Implemented performance optimizations such as code splitting, lazy loading, bundle optimization, and responsive rendering to ensure smooth user experience.

Shopping Experience Platform enabling dynamic catalog exploration, validated user inputs, and seamless backend communication, *Trimakus*

Monastir

- Built a complete **React** + **Redux** component architecture covering product catalog, filtering, shopping cart, checkout, and user account management.
- Designed a fully responsive UI using **Bootstrap** and custom styled components, ensuring a smooth experience across desktop and mobile devices.
- Implemented real-time admin features for inventory management, order tracking, and financial metrics using **React** state management and async data flows.
- Collaborated closely with **QA** teams to debug critical user journeys, optimize page load performance, and deliver a production-ready e-commerce platform.
- Developed reusable **JavaScript** utilities for input validation, routing, and asynchronous data fetching to improve code reuse and maintainability.

Hybrid Invoicing Platform enabling portable usage, real-time reconciliation, and full business workflow execution, *IMAGINO*

Monastir

- Designed and developed a hybrid invoicing system with online and offline capabilities using **React**, **Node.js**, **MongoDB**, **IndexedDB**, and **Service Workers**.
- Built an offline-first user experience enabling professionals to create invoices, quotes, and orders without internet access, with secure local persistence and background sync.
- Implemented real-time synchronization via **WebSockets**, including robust conflict-resolution logic when devices reconnect.
- Developed a modular **React** UI featuring dynamic forms, data tables, PDF generation, and client management workflows.
- Deployed the platform on **BeagleBone Green** hardware to support portable, reliable edge usage in low-connectivity environments.
- Delivered an end-to-end MVP including authentication, product and stock management, and complete invoicing workflows.

PERSONAL PROJECTS

Interactive Terminal-Style Portfolio

- Built a terminal-themed personal portfolio using **React.js**, **Next.js**, and **TailwindCSS**, replicating a command-line interface for a developer-centric user experience.
- Implemented interactive “commands” for navigating sections (about, skills, projects) with animated transitions to mimic real terminal behavior using **React** state and effects.
- Designed reusable UI components with **TailwindCSS** and optimized layout performance through **Next.js** server-side rendering (SSR) and static site generation (SSG).
- Deployed on **Vercel**, leveraging automated **CI/CD**, image optimization, and built-in performance tuning.

EDUCATION

National Diploma of Engineering Computer Science and Communication, <i>Higher Institute of Computer Science and Communication Technology of Hammam Sousse</i>	01/2015 - 01/2018 Tunisia
Bachelor of Science Computer Science, <i>Higher Institute of Computer Science and Mathematics of Monastir</i>	01/2012 - 01/2015 Tunisia
High School Diploma Mathematics, <i>Quardanine High School</i>	01/2011 - 01/2012 Tunisia