

# Mohamed Mahmoud

Senior Software Engineer

✉ mohammed\_hs55@yahoo.com

☎ +20 1112310567

🌐 [mohamedjs.github.io/mohamedjs](https://mohamedjs.github.io/mohamedjs)

🐙 [GitHub](#)

🌐 [LinkedIn](#)

📍 Cairo, Egypt

## PROFESSIONAL SUMMARY

Results-driven Senior Software Engineer with **6+ years** of experience building scalable, high-performance applications across the full technology stack. Proven expertise in modern web technologies including **Laravel**, **Node.js**, **React.js**, and **Next.js**, with a strong focus on clean architecture and performance optimization.

Demonstrated leadership in migrating legacy systems to modern architectures, implementing **multi-tenant SaaS** solutions, and delivering complex travel booking platforms serving thousands of users. Skilled in mentoring development teams and driving technical excellence through code reviews and best practices.

**Core Competencies:** Full-Stack Development • System Architecture • Team Leadership • Performance Optimization • Agile Methodologies

## TECHNICAL SKILLS

- **Frontend:** React.js, Next.js, TypeScript, Vue.js, Redux, Tailwind CSS, MUI
- **Backend:** Laravel, Node.js, Express.js, FastAPI, Flask, PHP
- **Databases:** MySQL, MongoDB, Redis, Meilisearch
- **Cloud & DevOps:** AWS, Docker, CI/CD, Nginx, Cloudflare
- **Testing:** Jest, Playwright, PHPUnit, Pytest
- **Real-time:** WebSockets, Pusher, Firebase
- **Architecture:** Microservices, SaaS, Multi-Tenant, Modular Monoliths
- **AI & ML:** Face Recognition, Search Systems, Python ML Libraries

## PROFESSIONAL EXPERIENCE

Senior Software Engineer

*Riyadh, KSA (Remote) / Oct 2022 – Present*

*Tripklik / Taqniat Lab*

- **Led frontend modernization** by migrating from legacy Blade templates to Next.js SPA, improving performance by 40% and user experience significantly
- **Architected modular monolith** frontend system with dynamic module loading, enabling rapid feature deployment and code reusability
- **Developed comprehensive travel platform** integrating flights, hotels, visas, and car rentals with real-time booking capabilities
- **Implemented multi-tenant architecture** supporting dynamic branding, multi-language (Arabic/English), and currency conversion
- **Optimized backend performance** using Laravel, Node.js, and Python microservices with Redis caching and MongoDB optimization
- **Established testing framework** with comprehensive UI/backend tests, achieving 85% code coverage

## Senior Full-Stack Developer

*Riyadh, KSA (Remote) / Jun 2021 – Dec 2021*

*WSSEL*

- **Contributed to R&D initiatives** for Saudi Arabia's leading food delivery platform serving 100K+ active users
- **Developed scalable microservices** using Laravel and Node.js with Docker containerization for improved deployment efficiency
- **Optimized API performance** reducing response times by 60% through strategic caching and query optimization
- **Collaborated cross-functionally** with mobile and frontend teams to ensure seamless API integration
- **Implemented monitoring solutions** using AWS CloudWatch for real-time system health tracking

## Senior Full-Stack Developer

*Cairo, Egypt / Feb 2019 – Jun 2021*

*iVAS*

- **Led technical architecture** for multiple e-commerce platforms, implementing clean code principles and design patterns
- **Developed scalable chat applications** with real-time messaging using WebSockets and Redis pub/sub
- **Mentored junior developers** (3 team members) in best practices, code reviews, and technical growth
- **Managed complete project lifecycle** from requirements gathering to deployment and post-launch support
- **Implemented automated testing** reducing production bugs by 70% through comprehensive test coverage

## Back-End Developer

*Cairo, Egypt / Jun 2018 – Oct 2018*

*Grand*

- **Developed RESTful APIs** serving mobile and web applications with focus on performance and security
- **Collaborated with frontend teams** to define API contracts and ensure optimal data flow
- **Managed client communications** providing technical guidance and project updates

## Full-Stack Developer

*Cairo, Egypt / Jan 2018 – May 2018*

*LoadServ For Integrated Business Solution*

- **Contributed to team projects** focusing on modern web technologies and best practices
- **Solved complex technical challenges** in both frontend and backend development
- **Participated in code reviews** and knowledge sharing sessions

## EDUCATION

---

### Bachelor of Science in Computer Science

*Cairo, Egypt / 2014 – 2018*

*Faculty of Computers & Artificial Intelligence, Helwan University*

- **Graduation Project:** AI-powered child search system using face recognition and social media analysis
- **Relevant Coursework:** Data Structures, Algorithms, Database Systems, Software Engineering, AI/ML

## KEY PROJECTS & ACHIEVEMENTS

---

### Enterprise Travel Booking Platform

*2022 – Present*

*Tripklik - Production System*

- **Migrated to modern architecture:** Next.js SPA with modular design supporting dynamic theming and multi-language support
- **Built comprehensive booking system:** Integrated flights, hotels, visas with real-time availability and pricing

- **Implemented B2B/B2C dashboards:** Advanced management interfaces for travel agencies and direct customers
- **Technologies:** Next.js, React.js, Laravel, Node.js, Python, Redis, MongoDB, Docker

### Real-time Chat Application

*May 2021 – Jun 2021*

[github.com/mohamedjs/chat-application](https://github.com/mohamedjs/chat-application)

- **Features:** Room management, user profiles, real-time messaging, emotion reactions, audio/video calls
- **Technologies:** React.js, Material-UI, Redux Toolkit, Laravel, MySQL, Redis, Docker, WebRTC

### AI-Powered Child Search System

*2018 – Present*

[github.com/mohamedjs/Kidnap-children](https://github.com/mohamedjs/Kidnap-children)

- **Graduation Project:** Social platform with face recognition AI for finding missing children
- **AI Component:** Python/Flask face detection and age estimation algorithms
- **Technologies:** Laravel, Vue.js, Python, Flask, OpenCV, Firebase, Pusher

### E-commerce Admin Panel (Vue.js)

*2019 – Present*

[github.com/mohamedjs/multi-vue](https://github.com/mohamedjs/multi-vue)

- **Complete admin solution:** OOP structure with Vuex state management and Laravel backend
- **Features:** Multi-language support, role-based permissions, analytics dashboard

### MERN Stack E-commerce

*2022 – Present*

[github.com/mohamedjs/shopping-node](https://github.com/mohamedjs/shopping-node)

- **Modern tech stack:** Next.js, Tailwind CSS, Express.js, MongoDB with Repository pattern
- **Focus:** Clean UI/UX and scalable backend architecture

## ADDITIONAL INFORMATION

---

#### Languages:

- Arabic (Native)
- English (Professional)

#### Soft Skills:

- Team Leadership
- Agile/Scrum Methodologies
- Problem Solving
- Code Review & Mentoring
- Technical Communication

#### Open Source Contributions:

- [Problem Solving Repository](#) - Algorithmic solutions in Python, C++, C
- Active contributor to Laravel and Vue.js community discussions