







# Muhammad Sayyid

## Full-Stack Developer (React.js & Node.js)

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 <https://muhammad-sayyid.vercel.app/>

### Profile

**Security-focused Full-Stack Developer** with strong hands-on experience in the **software development lifecycle (SDLC)**. Specialized in **Full-Stack Development (React.js, Node.js)** with a core expertise in **Application Security (AppSec)**. Expert in conducting **Secure Code Reviews, white-box testing**, and architecting **hardened runtime environments**. Beyond identifying vulnerabilities, I engineer **secure-by-design** solutions by mitigating root causes directly within the **source code**.

### Skills

**AppSec & Security:** Secure Code Review, OWASP Top 10, White-box Testing, Vulnerability Management (Trivy), Burp Suite, OWASP ZAP, RBAC.

**Frontend Development:** React.js, Next.js, Redux Toolkit, Tailwind CSS, React Query, Context API.

**Backend Development:** Node.js, NestJS, Express.js, Supabase, MongoDB, PostgreSQL, Python (Basics).

**Tools & Infrastructure:** Docker (Security), Linux (Bash), Git/GitHub, Postman, CI/CD Security.

### Projects

#### Hardened Node.js Runtime Environment

*Designed a secure containerization workflow for a Node.js application, focusing on attack surface reduction.*

- **Optimization:** Migrated to **Alpine Linux**, reducing image size by **60%** and minimizing potential CVEs.
- **Access Control:** Prevented privilege escalation by configuring containers to run as **non-root users**.
- **Security Scanning:** Integrated **Trivy** to automate High/Critical vulnerability detection during build.

**Tech Stack:** Docker, Trivy, Linux, Node.js.

#### The Wild Oasis (Hotel Management System)

*An internal hotel management system focusing on data integrity and secure role-based access.*

- **Security:** Implemented **RBAC** via Supabase and applied strict **input validation** to ensure data integrity.
- **Architecture:** Developed a secure React SPA with efficient remote state management using **React Query**.

**Tech Stack:** React.js, Supabase (Auth/DB), React Query.

#### WorldWide (Travel Tracking App)

*An interactive travel tracking application visualizing user footprint on a global map.*

- **Protection:** Secured user routes and sanitized third-party API (Leaflet) inputs to prevent vulnerabilities.
- **State:** Managed global state securely via **Context API** to avoid data exposure issues.

**Tech Stack:** React.js, Context API, CSS Modules.

### Education

#### Bachelor of Technology

Zagazig University 

**Major:** Marketing & E-commerce Technology

**Cumulative Grade:** Very Good

09/2023 – Present

Zagazig, Egypt

### Languages

**Arabic** – Native/Bilingual

**English** – Fluent