Mohammed Sellak

in LinkedIn | 📱 212-696-165-421 | 🌐 Sellak.tech | ✉ mohammed.sellak@hotmail.com | ⭘ GitHub

Full Stack Developer | AI & Data Science Specialist | Security & Optimization

Full Stack Developer & AI/Data Science Specialist with hands-on experience in scalable web applications, AI-driven algorithms, and security systems. Proven ability to improve efficiency, enhance system security, and deliver practical solutions across logistics, energy, and fintech. Trilingual: English (C1), French (B2), Arabic.

Experience

Sidi Mohamed Ben Abdellah University - Software developer   *Fes, Morocco*   **12/2024 – Present**

- Develop and maintain full-stack applications across web, mobile, and desktop platforms using diverse technologies.
- Build new applications from scratch and improve existing systems to ensure scalability, reliability, and maintainability.
- Collaborate with teams to deliver user-friendly solutions that support academic and administrative processes.
- Apply best practices in software development, integrating modern frameworks and tools to optimize system performance.

WeHelp - Research internship   *Meknes, Morocco*   **04/2024 – 10/2024**

- Developed an AI-powered pentesting web application leveraging LLaMA 3, fine-tuned on cybersecurity data, to automate website   scans and analyze vulnerabilities.
- Delivered intelligent recommendations and actionable guidance, helping users remediate security issues efficiently. Integrated achat-based interface for real-time interaction and consultation on security findings.
- Tech stack: Next.js, Node.js, Express.js, Tailwind CSS, MongoDB, Linux pentest tools.

Al Akhawayn University - Research internship   *Ifrane, Morocco*   **05/2023 – 09/2023**

- Collaborated with Professor Ilham Kisanni on applications solving complex routing problems (TSP, VRP, CVRP, VRPTW).
- Designed and implemented optimization algorithms, improving computational efficiency by 20%.
- Developed a web-based platform using Laravel, Flask, and Leaflet for real-time route visualization and interactive problem-solving.
- Applied advanced metaheuristics (Genetic Algorithms, Simulated Annealing, Tabu Search, Ant Colony Optimization) to address logistics challenges.

Education

Bachelor of Science - Higher School of Technology   *Meknes, Morocco*   **09/2023 - 06/2024**
- Major in Artificial Intelligence and Data Science

Diploma - Specialized Institute of Applied Technology   *Ifrane, Morocco*   **09/2021 - 06/2023**
- Major in Digital Development (Full Stack Web Developer)

Projects

- **Cyber X Radar – Advanced Threat Detection Platform :** Real-time cybersecurity platform monitoring dark web, breaches, and vulnerabilities for complete digital risk visibility.
- **Edufacilita – AI-Powered Math Learning Platform :** Platform with 5K+ AI-curated math questions, advanced search, and LaTeX rendering, used by educators in 50+ countries.
- **PentestGPT – AI-Powered Penetration Testing Platform :** AI-driven pentesting tool delivering 10x faster scans with 99.9% accuracy, providing real-time threat intelligence and reporting.

Skills

- **Programming:** Python, JavaScript/TypeScript, PHP, R
- **Frameworks:** React, Next.js, Node.js, Flask, Laravel
- **Databases:** MySQL, MongoDB, Redis
- **DevOps & Tools:** Docker, Git, Github, Nginx, Azure
- **AI/ML:** Deep Learning, Optimization Algorithms
- **Security:** Pentesting, Vulnerability Analysis, Linux Tools
- **Languages:** English (C1), French (B2), Arabic (Proficient)

Competitions & Achievements

- **1st Place - Regional Digital Day Project Competition:** Led a project focusing on routing optimization solutions, awarded for innovation .
- **Advanced Learning Algorithms Certification:** Completed an in-depth course on AI, machine learning, and data visualization (Coursera).