

Wael Abdulsalam Hamwi

Senior Full Stack Web engineer

CONTACT INFORMATION

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PROFESSIONAL SUMMARY

Experienced Senior Engineer with expertise in PHP, Laravel, and Node.js, specializing in scalable web applications and performance optimization. Skilled in React and Next.js for dynamic interfaces, with a strong background in CI/CD pipeline setup and cloud platform integration. Known for aligning technology with business objectives, fostering innovation, and delivering impactful results. Proven leader in managing complex projects, mentoring teams, and ensuring adherence to best coding practices for optimal performance and user satisfaction.

EDUCATION

Bachelor of Communication Engineering

Aleppo University, Aleppo, Syria

2013 – 2018

Program Focus: The program focused on communication systems and network engineering.

Master of Science in Web Technology

Syrian Virtual University, Damascus, Syria

2018 – 2022

Thesis Title: "Advancements in Web Development: A Comprehensive Study of Modern Technologies"

Thesis Score: 97/100

Overall Program Score: 86.02

Honors: Graduated as the top student in the program

Program Focus: Advanced studies in web technology, including a thorough exploration of modern web development methodologies and technologies. This program emphasized the development and implementation of scalable web solutions and cutting-edge practices in web technology.

University Profile: <https://svuonline.org/en/content/103082>

WORK EXPERIENCE

training and practical application purposes (2024 - 2025)

- **Learning Management System (LMS):** Zoom integration, offering role-based dashboards for administrators, teachers, students, and parents. Key features include real-time exam monitoring, assignment management, attendance tracking, and detailed analytics. Built with Livewire, vanilla JavaScript, Bootstrap, Alpine.js, PHP, and native SQL. Overcame challenges due to the absence of modern frameworks like React by refactoring the codebase and applying best practices for improved maintainability and scalability. [Demo LMS](#)
- **Next.js 15 Full-Stack eCommerce Project:** Optimized SEO and load times using server-side rendering and static site generation. Implemented secure JWT authentication with access and refresh tokens for seamless user sessions. Utilized Redux Toolkit for state management and Redux Persist for maintaining cart items and user sessions across reloads. Enhanced performance through caching strategies and memoization, reducing unnecessary re-renders and ensuring a smooth user experience. [Demo Ecommerce](#)

Senior Web Full Stack Developer and Business Analyst at ATCC–Kuwait (2023 - 2024)

Developed a POS system integrated with an e-commerce, allowing administrators and sellers to manage products. Implemented an affiliate marketing module and designed customizable features to support various business models, enhancing scalability and adaptability for American Technology Consulting Company [Demo Ecommerce](#)

Senior Web Engineer at Startup in Egypt (2022 - 2023)

Developed customized web solutions for Saudi clients, AI integration, and solution architecture.

- **Automation System for Merak Company:** Developed a WordPress-based automation system that streamlined account opening processes, significantly boosting efficiency. [Go Live](#) or [watch a Demo](#)
- **E-Commerce Platform:** Built a comprehensive e-commerce site with Laravel and React, ensuring responsive design and a user-friendly interface. [GitHub Code](#) — [Demo](#)
- **Sales Management System:** Developed a sales management system using Laravel and Ajax for seamless inventory and order management. [GitHub Code](#) — [Demo](#)
- **Custom WordPress Theme for Emerald Company:** Enhanced user experience and brand identity. [Go Live](#)
- **Premium Weather Alert Application for Boca Pro:** Developed a weather alert application using Laravel, featuring real-time updates via API integration and subscription management with Stripe through Laravel Cashier. Implemented background job processing, a notification system, and an interactive frontend using Livewire and Alpine.js. Focused on API consumption, database design, and achieved 70%. [GitHub Code](#) — [Demo](#)

Academic Work Experience (2013 - 2021)

During my academic career, I undertook significant projects and research:

- **WhatsApp Real-Time Messenger Clone:** Developed a full-featured real-time messaging application with React, Next.js, and Node.js, integrating Zegocloud API for seamless voice and video calls. The application includes features such as secure user authentication, dynamic chat interface, real-time text, multimedia messaging, and advanced search capabilities. [GitHub Code](#) — [Demo](#)
- **Modern UI/UX Website:** Designed a modern UI/UX website using Tailwind CSS and Gsap, featuring interactive 3D animations. [GitHub Code](#) — [Demo](#)
- **Podcasting Platform:** Created a podcasting platform integrating Google Cloud Text-to-Speech and Unsplash APIs for dynamic content and real-time data handling. [GitHub Code](#) — [Demo](#)
- **Deep Learning System for COVID-19 Detection:** Developed a deep learning model using Python and TensorFlow for accurate COVID-19 detection, , with a Flask web interface for user interaction. [Demo](#)
- **Data Mining Algorithms for Disease Detection:** Designed algorithms to predict diseases from physiological data, validated with medical experts. [Github](#)
- **E-Petrol Application:** Android application for real-time fuel price tracking and transaction management. [Github](#)
- **National Geographic Website Design:** Created UML and navigation diagrams for a National Geographic website, focusing on intuitive design and content navigation. [Github](#)
- **Newspaper Platform:** Created a newspaper platform initially in PHP using Model-View-Controller architecture (MVC), Later upgraded to Laravel framework for improved performance and scalability. [Github](#)
- **Surveillance System Development:** Image processing-based surveillance system for theft prevention

Key Achievements

Automated Merak Company's account opening process, reducing processing time by 70% and improving client satisfaction. Improved administrative efficiency by 50% and reduced data entry errors by 40% through workflow automation. Enhanced a sales system's performance, increasing transaction capacity by 30% with optimized queries and caching. Mentored junior developers and led successful project completions. Developed an e-commerce platform with zero downtime, increasing sales by 25%, driving a 30% boost in traffic.

PUBLICATIONS

Recognition for Contributions to the Journal Review Process, Informatics in Medicine Unlocked, July 2022.

Development and Integration of VGG and Dense Transfer-Learning Systems for COVID-19 Detection, Informatics in Medicine Unlocked, May 2022 (Published). DOI: [10.1016/j.imu.2022.101004](https://doi.org/10.1016/j.imu.2022.101004).

Building a Unified Neural Network of Deep Convolutional Models to Classify COVID-19 Patients by Spatial Processing of the Features in Images, Research Journal of Aleppo University, October 2022 (Published).

SKILLS

- **Front-End Development:** HTML, JavaScript, jQuery, Bootstrap, AJAX, React (React.js), Next.js, Alpine.js, React Hooks (Memo, Callback), React DOM, Formik, High Order Components (HOC), Zod.
- **State Management:** Redux, Redux Toolkit, Redux Persist, Context API, MobX, Thunk API
- **UI/UX Design:** HTML5, CSS3, Sass, Tailwind CSS, Figma, Adobe XD
- **Data Formats and APIs:** XML, JSON, RESTful APIs, GraphQL, Google API
- **Backend:** PHP, Laravel, Redis, Livewire, Node.js, Express.js, Python, Flask, MVP, MVVM, and MVC
- **Databases:** MySQL, MongoDB, PostgreSQL, prisma, firebsae
- **Integration and Deployment:** Amazon Web Services, Google Cloud Platform, Vercel, Docker, Kubernetes
- **Web Services:** Postman, Swagger, Stripe, DocuSign, Zapier, Zoom, Zegocloud, Git (GitHub, Bitbucket)
- **CMS and E-Commerce:** WordPress (Elementor, WooCommerce, FormCraft), Shopify
- **Real-Time Messaging:** WebSocket implementation, Real-time chat architecture
- **Artificial Intelligence:** TensorFlow, Keras, Pandas, NumPy, Scikit-Learn, Matplotlib
- **Server Monitoring and Maintenance:** Performance optimization, Routine updates, Security
- **Computer Science:** Data Structures, Algorithms, Database Design, Object-Relational Mapping, Networking
- **Communication Skills:** Effective written and verbal communication, Technical documentation
- **Work Ethic:** Self-motivated, proactive problem-solving, and strong time management
- **Additional Skills:** Object-Oriented Programming, Inheritance, Polymorphism, Clean Code Principles, Agile Methodologies, Project Management, Problem Solving, Quality Assurance Testing, Security Best Practices, Cloud Systems, Data Science, OOP, Software Development, Jira (task tracking, sprint planning, collaboration)

CERTIFICATES

- **Web Design Certificate and Upper Intermediate English Certificate, Web Development Course full stack**
New Horizon Institute
- **Advanced English Certificate, International**

English Language Testing System (IELTS) Certificate and Test of English as a Foreign Language (TOEFL) Certificate
Aleppo University / Higher Consulting Institute of Aleppo University