

Hussien Alloush

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Full-Stack Developer | Backend Specialist | Security Researcher

SUMMARY

Software Developer skilled in building secure, scalable web applications and APIs using JavaScript, TypeScript, Node.js, Express.js, and Python. Experienced in database design, user authentication, and clean, maintainable code practices, with a proven track record that includes **discovering and responsibly reporting a data exposure vulnerability on NASA's globe.gov platform**. Focused on writing reliable, maintainable software that solves real-world problems, with a strong emphasis on security and performance.

CORE COMPETENCIES

Backend Development, Database Design, Application Security, Web Development, System Integration, Code Optimization, Query Tuning, Search Optimization, Secure Architecture, Technical Maintenance.

PROFESSIONAL EXPERIENCE

Software Developer | Antaki GPPK

September 2025 – Present

- Develop and maintain backend and web solutions using PHP, Laravel, and WordPress to support scalable business operations and evolving client requirements daily.
- Implement custom business logic, complex database queries, and third-party integrations using SQL and MySQL to deliver reliable functionality across all active projects.
- Apply search engine optimization best practices to improve website ranking, loading speed, and overall visibility across every major search platform consistently maintained.
- Work with HTML, CSS, JavaScript, and Python across full-stack features to deliver polished user experiences and dependable backend services across projects.

Backend Developer Intern | Integrated Digital System (IDS)

December 2024 – February 2025

- Designed RESTful application programming interfaces and integrated third-party services to support smooth communication between internal systems and external platforms reliably at scale.
- Implemented authentication, authorization, and role-based access control mechanisms to protect sensitive user data and enforce proper permission boundaries across all applications.
- Optimized SQL queries and database schemas for improved performance and reliability, reducing response times and supporting higher application throughput consistently under load.

Web Developer | Bepro Agency

September 2023 – November 2023

- Developed responsive websites using WordPress, PHP, JavaScript, and Bootstrap, delivering polished user experiences across desktop, tablet, and mobile devices for clients.
- Implemented on-page search optimization strategies that improved search performance, boosted visibility, and helped clients reach broader online audiences effectively across markets.

EDUCATION

Bachelor of Science in Computer Science | Lebanese International University

August 2024

TRAINING AND CERTIFICATE

NASA Vulnerability Disclosure Program Letter, Independent Security Researcher | NASA

- Discovered a publicly accessible PDF on NASA's globe.gov exposing sensitive PII, including a minor's personal data, home address, and signatures, using targeted Google dorking techniques. Reported the vulnerability responsibly, highlighting privacy risks and potential regulatory compliance concerns.

CompTIA Pentest+ | Udemy

November 2024

The complete cybersecurity Course | Hackers Exposed

March 2024

The Complete 2023 Web Development Bootcamp | Udemy

April 2026

CCNA: Introduction to Networks, Routing and Switching, Scaling Networks, Connecting Networks, Interconnecting Networks, Network Security, CyberOps | Cisco Networking Academy

June 2023

PROJECTS

AI Personal Trainer (Conversational Fitness Coach)

July 2026

- Built a conversational AI fitness coach that gives personalized workout advice based on user goals and preferences, including AI vision analysis of uploaded exercise photos. Implemented a RAG pipeline using ChromaDB to ground coaching advice in each user's actual fitness plan, alongside a dual-LLM architecture pairing Groq's Llama-3.1-8b-instant for fast chat with OpenAI GPT-4o for image analysis.
- **Tech Used:** Streamlit, FastAPI, Python, SQLite, SQLAlchemy, Groq, LangChain, ChromaDB, pypdf.

AI Recipe Generator (Full-Stack Web App)

June 2026

- Built a full-stack web app that generates complete, structured recipes using Google Gemini based on ingredients users have. Developed pantry management with expiry tracking and a weekly meal planner that auto-generates shopping lists, backed by a PostgreSQL database and JWT authentication.
- **Tech Used:** React 19, Vite, React Router, Tailwind CSS, Node.js, Express, PostgreSQL, JWT, bcrypt, Google Gemini 2.5 Flash.

E-Commerce Platform

March 2026

- Built a full-stack e-commerce platform using a microservices architecture, allowing customers to browse and purchase products through a customer storefront and admins to manage operations through a dedicated dashboard. Designed 5 independent backend services communicating through Kafka events, with a dual-database setup using PostgreSQL and MongoDB and secure payments via Stripe.
- **Tech Used:** Next.js, Zustand, TanStack Query, TanStack Table, Node.js, Express.js, PostgreSQL, Prisma, MongoDB, Clerk, Kafka, Stripe, Turborepo, pnpm, Docker.

OTHER

Technical Skills: Python, Java, JavaScript, TypeScript, HTML, CSS, RESTful APIs, JSON, MySQL, Node.js, WordPress, SQL, Bootstrap, Postman, PHPMyAdmin, Git CLI, Linux Command Line, MVC Architecture, Agile Methodologies, Input Validation, SQL, CSRF and XSS Protection, Debugging.

Soft Skills: Problem Solving, Attention to Detail, Fast Learner, Adaptability, Critical Thinking, Time Management.

Languages: Arabic (native), English (advanced (C1)).