

Youssef Azougagh

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SUMMARY

Software Engineer with a strong foundation in computer science and hands-on experience delivering scalable, full-stack solutions for real-world clients. Adept in data structures, algorithms, and system design with a proven ability to analyze problems, design robust architectures, and communicate effectively across technical and business teams. Skilled in Agile collaboration, mentorship, and translating business requirements into high-impact software.

TECHNICAL & PROFESSIONAL SKILLS

Programming Languages: Java, Python, JavaScript, C#, SQL

Frameworks & Tools: React, Node.js, Flask, Docker, .NET, IBM Cloud, Git, CI/CD

CS & Problem-Solving: Data Structures, Algorithms, OOP, Design Patterns, System Architecture, Debugging

Soft Skills: Collaboration, Leadership, Mentorship, Analytical Thinking, Adaptability, Client Communication

EXPERIENCE

Freelance Software Developer | Remote | 2021 – Present

- Designed, developed, and deployed 10+ custom applications for clients in healthcare, education, and small-business sectors.
- Delivered full software lifecycle: requirements, architecture, coding, testing, deployment, and maintenance.
- Applied data structures and algorithms to optimize backend performance and system scalability.
- Built APIs and automation systems that reduced manual workloads by up to 40%.
- Collaborated with clients and engineers under Agile methodologies to ensure timely, high-quality releases.

Certified Senior Tutor – Norwalk Community College | Norwalk, CT | 2018 – 2019

- Tutored students in Java, OOP, Data Structures, and Algorithms, improving academic success rates.
- Guided peers in debugging and optimizing code while strengthening problem-solving confidence.

SELECTED PROJECTS

Optician / Ophthalmologist Management System | Full-Stack Developer

- Built and deployed a business management platform with one engineer, adopted by 20+ businesses.
- Automated client management, inventory, finance, and payroll systems, saving customers 10+ hours weekly.
- Designed marketing and analytics modules that increased user engagement and sales performance.

AI-Powered Wildlife Detection System | Python, Detectron2

- Developed a deep learning model achieving 77% detection accuracy on wildlife datasets.
- Applied CNN architectures, data augmentation, and model tuning to enhance recognition performance.

Store Management System | Java, JavaFX, MySQL

- Designed a secure, multi-threaded desktop system handling 10K+ records.
- Implemented role-based access control and optimized processing time by 90%.

Carpooling Web Application | Python, Flask, MySQL

- Led a 4-member Agile team to develop REST APIs for real-time ride matching and user authentication.

EDUCATION

Bachelor of Science in Computer Science, Minor in Mathematics | GPA: 3.2

Southern Connecticut State University — *December 2023*

Relevant Coursework: Data Structures & Algorithms, Software Design, Distributed Systems, AI, Deep Learning, Operating Systems

Associate of Science in Computer Science | GPA: 3.5

Norwalk Community College — *May 2020*

CERTIFICATIONS

Networks and Systems Technician — *May 2020*

Agile Software Development — LinkedIn Learning (2020)