HAZEM JBALI

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WORK EXPERIENCE

Hitech Solutions — Feb 2023 - Nov 2023
Full Stack Web Developer - Intern — *Lisbon, Portugal*

- Deployed Vue.js for interactive frontends and Laravel for robust backend logic, leveraging Storybook and Cypress for testing; achieved a 35% increase in development efficiency and a 30% reduction in post-launch issues.
- Orchestrated CI/CD pipelines using Jenkins and Docker, yielding a 40% reduction in deployment time and enhancing code quality.
- Implemented and managed cloud solutions using Amazon Web Services (AWS), including EC2, S3, and RDS, ensuring scalability, reliability, and cost-efficiency.
- Collaborated effectively with designers and developers, enhancing communication and consistently achieving project milestones.

Ste Com Prod — July 2020 - Jan 2023
Software Engineer - Contractor — *Ariana, Tunisia*

- Revamped outdated legacy source code across 10+ projects using scalable Web stacks (React, Angular, Node.js, Django) and databases (MongoDB, MySQL), integrating DevOps practices to achieve significant efficiency gains and expedite time-to-market.
- Led the development of interactive single-page applications (SPAs), achieving a 40% increase in user engagement and reducing frontend loading times by 25%.
- Executed regression testing for projects within virtual environments, ensuring flawless performance with zero bugs.

Ministry of Social Affairs Tunisa — June 2021 - August 2021
Software Engineer - Intern — *Tunis, Tunisia*

- Engineered a Python/PHP service to detect equipment vulnerabilities, analyzing hundreds of logs via the National Vulnerability Database.
- Generated weekly reports by extracting, cleansing, analyzing, and formatting database data with SQL and Python.

Topnet — Jan 2019 - June 2019
CyberSecurity and Network Operations - Intern — *Tunis, Tunisia*

- Assessing technologies to strategize optimal solutions for addressing business challenges.
- Implemented a customized VPN tunnel between head office and agencies, enhancing network security and ensuring seamless communication with remote sites.
- Implemented a robust application firewall using ModSecurity, enhancing security posture with a 95% reduction in SQL injection attempts and a 75% decrease in cross-site scripting (XSS) attacks.

SKILLS

Languages	English (Full proficiency), French (Native), Arabic (Native), German (A2).
Programming	Python, JavaScript, C, C++, Go, PHP.
Databases	MySQL, PostgreSQL, MongoDB (NoSQL).
Frameworks	Angular, React, Vue, Flutter, Bootstrap, Figma, Django, Express, TensorFlow.
Tools	Shell, Git, Docker, Kubernetes, CI/CD, DevOps, VSCode, Arduino, Jira, Jenkins

EDUCATION

Superior Institute of Informatics Tunis Manar, Ariana, Tunisia   2019 - 2024
Master of Engineering in Applied Sciences and Technology. Graduated with the highest honors.
<u>*Relevant courses:*</u> *Advanced AI, Ethical Hacking, Deep Learning, Software Architecture, DevSecops Data Cloud Computing, Software Testing and QA, Advanced Social Media Analysis.*

Superior Institute of Informatics Tunis Manar, Ariana, Tunisia   2016 - 2019
Bachelor of Science and Technology.
<u>*Relevant courses:*</u> *Data Structures & Algorithms, DBMS, OOP, Web Development, Networks programming, Systems programming, Computability, Functional programming, Cyber-security.*

CERTIFICATES

Advanced Python Programming	*Jan - 2021*
CCNA: Introduction to Networks	*Sep - 2022*
CCNA: Switching, Routing, and Wireless Essentials	*Oct - 2022*
CISCO Cybersecurity Essentials	*Nov - 2022*
CCNA: Enterprise Networking, Security, and Automation	*Jan - 2023*
IBM Blockchain Certificate	*Feb - 2023*

PROJECTS

Automated Code Review System – AutoCode Rev   December 2023 - Present

· Spearheaded the development of an automated code review system aimed at enhancing code quality and reducing manual efforts in the review process. Leveraged machine learning algorithms for code analysis and pattern recognition, resulting in a 30% reduction in review time. ***Python, TensorFlow, Docker***.

Logistic Python Automated Bot – SupplyChain   September 2022 - December 2022

· Created a Python-based system using predictive analytics to optimize stock replenishment, reducing stockouts by 25% and excess inventory by 30%. ***Python, Pandas, NumPy***.

Security Bot for Exploit Detection – CyberGuard   April 2021 - September 2021

· Developed a security bot using web scraping and machine learning to instantly alert administrators to new exploits, including 0-day vulnerabilities from the NVD. Reduced Mean Time to Detect (MTTD) vulnerabilities by 40%, significantly enhancing cybersecurity defenses. ***Python, BeautifulSoup, Scikit-learn***.

AI-Powered Customer Support Chatbot   March 2021 - December 2021

· Engineered an AI-powered chatbot for automating customer support inquiries and enhancing user experience. Employed natural language processing (NLP) techniques to understand user queries and provide accurate responses, resulting in a 40% reduction in support ticket resolution time. ***Python, TensorFlow, Flask***.

HONORS AND AWARDS

ISI 2019 Enterprise Award
ISI Enterprise Award commends an individual's outstanding networking and organizational prowess in the startup community, driving growth and collaboration between leading startups and the host university.

Best Team Player Award 2020
A distinguished honor that emphasizes the ability to collaborate effectively, foster a supportive work environment, and consistently contribute to team successes. Aquired during 2020 Tunisia National Cyber Hackathon