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About me

Software Engineer & Automation Specialist with expertise in building intelligent, scalable automation systems, optimizing workflows, and integrating APIs to enhance efficiency and drive business performance.

Work experience

Automation Systems Engineer | Black Belt Management Group | 01/12/2024 - Current | Holmdel, New Jersey - Remote, United States

As a Systems Automation Engineer, I specialize in designing and implementing efficient, scalable, and innovative automation solutions that streamline processes and enhance operational performance. My role bridges the gap between cutting-edge technology and real-world business challenges, ensuring seamless integration and reliable systems.

I thrive in:

- Process Optimization: Identifying inefficiencies and crafting automated workflows to improve productivity.
- Monitored and maintained automated systems, ensuring reliability and efficiency.
- Conducted regular maintenance and troubleshooting of automated systems to ensure uptime and reliability.
- Continuously researched and implemented the latest automation technologies and methodologies to keep systems up-to-date.
- Used AI-driven tools like n8n to automate workflows, ensuring data accuracy and seamless integration in CRM systems like Pipedrive. I have built automated processes to extract data from emails, streamline documentation, and enhance efficiency by reducing manual work and errors.

System Analyst | Defy Insurance Agency | 01/12/2024 - Current | Princeton, New Jersey - Remote, United States

As a Systems Analyst at Defy Insurance, I specialize in bridging the gap between business needs and technical solutions. My expertise lies in analyzing complex systems, optimizing workflows, and ensuring that our technology aligns seamlessly with the company's strategic goals.

I excel in:

Requirements Analysis:** Identifying and documenting system requirements to enhance operational efficiency.

Process Optimization:** Streamlining workflows to reduce costs and improve customer experiences.

Collaboration:** Working closely with cross functional teams, including developers, testers, and business stakeholders, to deliver scalable and innovative solutions.

At Defy Insurance, I'm passionate about leveraging technology to transform the insurance landscape. By integrating cutting-edge tools and data-driven insights, I help ensure our systems remain robust, user-friendly, and future-proof.

Software tester | Soft Innovation - Internship | 01/01/2024 - 01/08/2024 | giza, Egypt

Assisted in developing features for desktop applications using C++ and C#, contributing to the design and implementation of user-friendly interfaces while conducting manual testing to ensure functionality and usability.

Participated in a project integrating Kinect technology to create interactive, gesture-based applications, enhancing user interaction capabilities and validating system performance with test cases for gesture accuracy and responsiveness.

Collaborated with the team to analyze client requirements, ensuring solutions were tailored to meet business needs

and user expectations, and created test scenarios to verify the implementation of these requirements.

Contributed to writing requirement specifications, technical documentation, and test plans, ensuring clear communication between stakeholders and the development team while streamlining the testing process.

Projects

kickboxing style enhancement while training (Klckfit) | 01/02/2021 - 01/02/2022

Developed an interactive system leveraging Kinect v2 hardware and the Kinect for Windows SDK 2.0 to provide real-time feedback on body posture and movement during workouts. The system tracks user skeleton data, including joint positions, angles, and movements, to ensure proper form and prevent injury.

<https://youtu.be/oG9l-a3pgLg>

E-commerce Website Testing | 01/03/2024 - 01/04/2024

Conducted manual testing of an e-commerce website's key features, such as user registration, login, product search, and checkout.

Created test cases based on user requirements and executed them to identify issues.

Logged and tracked bugs using Jira, ensuring clear documentation and communication with the development team.

Automated basic login functionality tests using Selenium WebDriver to improve efficiency and consistency.

Library Management System | 01/09/2024 - 01/10/2024

Designed and executed test cases for a library management system using skills learned in the Manual and Automation Software Testing course.

Automated key workflows, such as book search and user login, using Selenium WebDriver and TestNG.

Performed API testing using Postman to validate database interactions and system integration.

Conducted basic performance testing using Apache JMeter to measure system stability under load.

Social Media Publishing Agent (n8n Automation)

Built an automated workflow using n8n to publish and schedule posts on LinkedIn and X (Twitter).

Integrated LinkedIn and X APIs for seamless post delivery.

Added AI-generated captions and automated hashtag handling to enhance engagement.

Implemented analytics tracking and error handling to ensure reliable and optimized performance.

RSS Feed Publishing Agent (n8n Automation)

Developed an automated RSS-based workflow using n8n to post content directly to LinkedIn organization profiles and X (Twitter).

Integrated RSS feeds to detect and publish new articles or updates in real time.

Utilized APIs for seamless post delivery with AI-generated captions and hashtags.

Implemented logging, error handling, and analytics tracking for reliable performance and monitoring.

Cold Calling Outreach Automation (Instantly AI)

Built an automated cold outreach system using Instantly AI to manage and scale email campaigns targeting potential clients.

Designed personalized email sequences with smart follow-ups to increase response and conversion rates.

Integrated lead lists and custom variables for dynamic personalization and segmentation.

Tracked open, reply, and bounce rates to continuously optimize campaign performance.

Skills

Programming and Development Tools | C++ | c# | java | css | html | GitHub | JavaScript | Microsoft Visual Studio | IntelliJ IDEA | Visual Studio Code

Software Testing Tools | Jira | Selenium | appium | Postman

Productivity and Collaboration Tools | microsoft excel | Word | PowerPoint

Operating Systems and Platforms | Windows: Proficient in Windows development environments and troubleshooting | Linux: Basic understanding of Linux commands, environment setup, and deployment

Honours and Awards _____

Master Class in Software Testing | Machinfy | 23/10/2024

Completed an intensive, advanced training course on software testing principles and techniques. The course covered a wide range of topics, including test planning, test case design, automation strategies, defect tracking, and performance testing. It provided hands-on experience with industry-standard testing tools and methodologies, enhancing my ability to implement effective testing strategies and ensure high-quality software delivery.

Education & Training _____

Bachelor's degree in Computer science | Modern Sciences and Arts University | 02/02/2016 - 16/02/2022 | giza, Egypt

Field of studySoftware Engineering | Final grade: 2.4 | Level in EQF 6

Bachelor's degree in Computer science | University of Greenwich | 02/02/2016 - 16/02/2022 | greenwich, United Kingdom

Field of studySoftware Engineering | Final grade: second honor | Level in EQF 6

Language Skills _____

Mother tongue(s): **Arabic**

	Understanding		Speaking		Writing
	Listening	Reading	Spoken production	Spoken interaction	
English	C1	C2	B2	B2	B1