**FREDRICK TUFFOUR**

**Software Engineer**

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**PROFESSIONAL SUMMARY**

Enthusiastic and adaptable software engineer with a proven track record of success in collaborative and high-pressure environments. Possesses a strong foundation in programming languages, databases, and digital forensics, with a commitment to continuous learning and innovation. Excels at leveraging technical expertise to develop and deliver efficient solutions. Adept at project management and communication, with a keen eye for detail and a passion for contributing to the success of dynamic teams. I am a teacher with 2 years of computer science work experience in various positions. Currently pursuing a BSc Hons in Software Engineering, complementing practical experience with a solid academic foundation. Eager to bring a combination of technical skills, creative problem-solving, and dedication to excellence to a challenging software engineering role.

Technical expertise / SKILLS

* Possesses working knowledge about various platforms such as Linux, Windows, UNIX, etc.
* In-depth knowledge of C# and experience using .Net.
* Experience in software development and project leadership.
* Proficiency in web development and containerised applications.
* Enthusiasm to learn new skill about the latest technological aspects.
* Flexibility and adaptability to work in a growing, dynamic, international team with a strong customer-oriented attitude.
* Experience with Design Patterns, Refactoring, OO Design, and related areas.
* Experience in .NET 8, JavaScript, React, Angular 17, Microservices, MongoDB, Vue.js, TypeScript, Azure, AWS, Web API 2
* Install, upgrade, support and troubleshoot XP, Windows 7, Windows 8, Windows 10, and any other authorized desktop applications.
* Experience with serverless architectures, preferably AWS, and API-first architecture.
* Experience with Relational Databases or NoSQL database.
* Rest or GraphQL based APIs, as well as Git, Docker, and CI/CD
* Ability to work effectively in a small team, with good communication skills and a collaborative approach to problem-solving.
* Self-confidence, interpersonal skills, and good team player.
* Analytical and problem-solving skills
* Good communication (both verbal and written) skills.
* Programming Languages: Python 3, PHP, HTML, SQL, Blue J, JavaScript, CSS, Visual Paradigm.
* Software Development Tools: Eclipse, VS Code, Apache NetBeans, Scene Builder
* Web Technologies: HTML5, CSS3, Responsive Web Design, WordPress.
* Database Management: Oracle Apex, MS SQL Server, MySQL Workbench, PHP Admin.
* Version Control: GitHub, Git.
* Digital Forensics: Hard Drives and USB Analysis, Malware Identification, Exfiltration Methods Determination, Volatile Memory Analysis.
* Office Tools: MS Word, MS Excel, MS Project, MS Outlook, MS Outlook, MS Visio, MS SharePoint.

**ADDITIONAL SKILLS**

* Communication Skills
* Leadership Skills
* Problem-Solving
* Continuous Learning
* Adaptability
* Collaboration and Teamwork
* Attention to Detail
* Creativity
* Self-Motivation
* Resilience
* Critical Thinking
* Emotional Intelligence

Professional Experience

**Head Of Computer Science Teacher, Joelee Educational Complex Kumasi, Ghana** 2017- Present

* Developed and implemented a comprehensive computer science curriculum for high school students, incorporating programming languages like Python and Java.
* Conducted engaging and interactive classroom sessions to teach fundamental computer science concepts, algorithms, and problem-solving skills.
* Organized coding competitions and projects, fostering a competitive and collaborative learning environment.
* Initiated and led extracurricular coding clubs, allowing students to explore advanced topics and participate in coding challenges.
* Implemented a mentorship program connecting students with professionals in the field, fostering networking opportunities and career exploration.
* Implemented a mentorship program connecting students with professionals in the field, fostering networking opportunities and career exploration.
* Troubleshoot the network for the school’s computer performance.
* Responsible for monitoring, operating, managing, troubleshooting, and restoring to service any terminal service client, personal computers (PC) or notebooks that have authorized access to the network of the school’s computer.

**McLean Services Supervisor Treehouse Hotel (Monza) Oxford Circus London** 2020**-**2021 Present

* Oversaw the cleaning and maintenance operations of the hotel kitchen at Mclean Services Treehouse Hotel.
* Managed a team of cleaning staff, ensuring adherence to high standards of cleanliness and hygiene.
* Developed and implemented efficient cleaning schedules to maintain a pristine and organized kitchen environment.
* Improved kitchen cleanliness ratings by 100% through effective supervision and streamlined processes.
* Successfully trained and integrated a cohesive cleaning team, enhancing overall efficiency.

**UPS (United Parcel Service)** **Dunstable United Kingdom** 2023-Present

* Efficiently sort incoming parcels based on destination, ensuring accurate and timely delivery.
* Safe operation of a Powered Pallet Truck (PPT).
* Utilize scanning equipment to accurately track and update parcel status in the system.
* Maintain a high level of attention to detail to minimize errors in sorting and scanning processes.
* Collaborate with team members to meet daily sorting targets and delivery schedules.

UNIVERSITY ProjectS & research

**Prevention of Cyber Attacks and Network Infrastructure/ Databases and Computer Networks**

* Demonstrated a strong understanding of networking protocols, subnetting, routing, and switching through hands-on experiments and simulations.
* Ensure our digital channel architectures comply with security, privacy, and regulatory guidelines.
* Develop, articulate, and own the enterprise digital channel architecture and roadmap encompassing web, mobile, B2B and other online platforms.
* Tested systems for vulnerabilities in hardware and software and created virus detection systems.
* Developed authentication and authorization protocols and maintained server and switches.
* Knowledge in network protocols (especially TCP/IP, VOIP, wireless protocols)
* Performed testing on networking design.
* Performed computer networking operations, concepts, and protocols.

**Logic Building and Effective Management System/ Principles of Programming and Data Structures**

* Utilized programming languages such as JavaScript, Java and PHP to create a robust and scalable system that addressed specific challenges in effective project management.
* Employed strong problem-solving skills to identify bottlenecks and streamline processes within the system, resulting in a more efficient workflow.
* Enhanced skills in project management, teamwork, and effective communication through the successful coordination of team members and project milestones.
* Collaborated with team members to establish a user-friendly interface, enhancing the overall user experience and ensuring widespread adoption of the system.
* Contributed to the documentation of the project, creating comprehensive reports outlining the system's architecture, functionalities, and potential for future improvements.

**Mobile App Development/ Mathematics and Software Architecture**

* Applied problem-solving skills to address challenges in user interface design, user experience, and mobile platform optimization, resulting in a responsive and intuitive application.
* Enterprise level architectural experience with the ability to see the bigger picture across a broad range of platforms for project.
* Strong capabilities in executing architectures within omnichannel customer domains, preferably retail across web and mobile.
* The ability and willingness to direct engineering teams within a digital setting.
* Showcased the project in presentations to faculty members and peers, effectively communicating design decisions, technical achievements, and future development possibilities.
* Created comprehensive documentation, including an application architecture overview and a detailed report outlining the development process and key learnings.
* Conducted thorough testing and debugging to ensure the application's functionality, responsiveness, and overall reliability on both iOS and Android devices.

**Web Technologies And Platforms**

* Integrated features such as [mention specific features, e.g., APIs, authentication systems, etc.] to enhance the functionality and user interactivity of the web application.
* Created comprehensive documentation, including an overview of the web application's architecture and a detailed report outlining the development process and key insights.
* Effectively presented the project in faculty reviews and to peers, highlighting the innovative use of web technologies and platforms.
* Contributed to the documentation of the project, creating comprehensive reports outlining the web application's architecture, design principles, and potential future enhancements.
* Strengthened skills in web development, responsive design, and the integration of various web technologies and platforms.

**EDUCATION**

**National Institute of Information Technology** **Ghana Kumasi (NIIT) 2017- 2019**

* Professional Certificate in Software Engineering February 2017- February 2019

Honors Diploma (Software Engineering)

* GPA: *3.0*

**University Of Bedfordshire** **United Kingdom (England) 2020-2024**

* Professional Certificate in Software Engineering October 2020- June 2024

BSc Hons Software Engineering

* GPA: 2.1

**CERTIFICATIONS**

* Honors Diplomat Software Engineering
* CCNA CISCO CERTIFICATE
* BSc Hons Software Engineering (FY)

REFERENCES

* Asafo-Adjei Agyemang Eugene (Head Lecturer Software Engineering NIIT)

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* Joseph Mensah (Headmaster of Joelee Educational Complex)

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