



Marcus Lawson

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SUMMARY

Driven and passionate software engineer with over six years of experience developing embedded systems, especially in health-related environments. Strong command of C# and .NET; brings real-world expertise creating robust applications that comply with regulatory standards. Collaborates seamlessly with cross-functional teams to identify areas for enhancement, ultimately improving product performance. Enjoys diving into problem-solving and refining complex systems to boost operational efficiency, ensuring clean, maintainable code through best practices. Committed to driving innovative solutions while contributing to meticulous documentation to support compliance. Eager to leverage expertise to drive advancements at Innovative Tech Solutions.

EXPERIENCE

Device Software Engineer January 2021 - Present
Tech Innovations Inc. *Chicago, IL*

Focused on designing and implementing software solutions for integrated devices in regulated sectors. Engaged actively with systems and electrical engineers to maximize device benchmarks. Contributing significantly to architecture discussions and managing design specifications enhance project outcomes. Developed rigorous testing strategies ensuring quality delivery.

- Designed software complying with healthcare regulations, enhancing operational excellence.
- Collaborated effectively with engineers, achieving a notable 20% enhancement in device performance.
- Participated in comprehensive requirements analyses, leading collaborative architecture deliberations.
- Created extensive unit tests boosting software reliability prior to roll-out.

Software Engineer June 2018 - December 2020
NextGen Technologies *Chicago, IL*

Played a key role in developing embedded systems, enhancing interoperability among medical devices launched during tenure. Took initiative to improve troubleshooting times and streamline tech operations. Researched testing frameworks adopting processes allowing quick iteration on complex projects.

- Engineered multi-threaded applications, critically adding new medical devices to the portfolio.
- Streamlined debugging methods prompting a swift reduction in issue resolution time by about 30%.
- Took charge in evaluating cutting-edge testing platforms facilitating quicker development cycles.
- Engaged in peer reviews, instilling quality assurance norms across the software team.

PROJECTS

Real-Time Data Processing Project 📅 February 2023

Led a team focused on a data processing system utilizing embedded devices. Coordinated efforts between various disciplines ensuring seamless information integration. Measured success by virtually eliminating delays in data collection proceedings.

LEADERSHIP & AWARDS

- Outstanding Developer Award 2022
- Tech Contributions Award 2021

EDUCATION

Bachelor's Degree in Computer Engineering 2017
University of Illinois at Chicago GPA: 3.5 *Chicago, IL*

Coursework: *Software Development, Systems Architecture, Embedded Systems, Regulatory Compliance*

CERTIFICATIONS

- Certified Software Development Professional (CSDP) 📅 2020
- Producer's License for Life/Health 📅 2021

TECHNICAL SKILLS

- **Programming Languages:** C#, Java, Python
- **Development Frameworks:** .NET, ASP.NET, WPF
- **Embedded Platforms:** Arduino, Raspberry Pi, ARM
- **Version Control:** Git, GitHub, Bitbucket
- **Testing Tools:** JUnit, NUnit, Selenium
- **Database Management:** SQL Server, MySQL, MongoDB
- **Operating Systems:** Windows, Linux, MacOS
- **Virtualization Tools:** Docker, VMware, VirtualBox
- **Development Methodologies:** Agile, Waterfall, SCRUM
- **Communication Tools:** Slack, Microsoft Teams, Zoom

SKILLS

- C#
- .NET
- Embedded Systems
- Windows Programming
- Agile Methodologies
- DevOps
- Automated Testing
- Debugging
- Engineering Documentation
- Software Design
- Problem Solving
- Testing Frameworks
- Cross-Functional Collaboration
- Documentation Standards
- Regulatory Compliance

PROFESSIONAL AFFILIATIONS

- Member of IEEE Professional Association.
- Active Contributor to Open Source Projects.

LANGUAGES

- English (Native)
- Spanish (Intermediate)

ADDITIONAL INFORMATION

Work Status : Authorized to work in United States. No sponsorship required.

REFERENCES

AVAILABLE ON REQUEST