

Axel Willis

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SUMMARY

Motivated software engineer with a strong programming foundation and hands-on experience in developing medical imaging software. Competent in collaborating with diverse teams to deliver high-performance solutions, demonstrating proficiency in C++ and familiarity with various computing technologies. Committed to enhancing software functionality through innovative applications and eager to contribute in a dynamic healthcare technology environment.

EDUCATION

Bachelor's Degree in Computer Science

2025

University of Wisconsin-Madison GPA: 3.8

Madison, WI

Coursework: C++, Linux, Object-Oriented Programming, Data Structures

TECHNICAL SKILLS

- **Software Engineering Practices:** Agile
- **Programming Languages:** C++
- **Operating Systems:** Linux
- **Coding Tools:** Visual Studio
- **Testing Frameworks:** JUnit
- **Version Control:** Git
- **Development Platforms:** Docker
- **Documentation Tools:** Markdown
- **Collaboration Tools:** Slack
- **Project Management:** Trello

SKILLS

- C++ Programming
- GPU Computing (CUDA, OpenCL)
- Linux Operating Systems
- Object-Oriented Design
- Problem Solving
- Mathematics
- Scripting (Bash, Python)
- Team Collaboration
- Software Testing
- Technical Documentation
- Algorithm Development
- Data Analysis
- Debugging Techniques
- Version Control (Git)
- Performance Optimization
- Software Development Methodologies

EXPERIENCE

Software Development Intern

June 2025 - Present

Innovative Tech Solutions

Chicago, IL

Assisting in the development of software for medical imaging applications, focusing on performance optimization and feature implementation using C++. Engaging in team collaboration efforts to improve workflow processes and provide technical support.

- Developed software features based on requirements set by healthcare technology stakeholders.
- Collaborated with colleagues to enhance GPU algorithm performance, driving efficiency.
- Maintained documentation, supporting knowledge sharing, and continuous improvement.
- Provided technical assistance during product releases, ensuring operational readiness.

Junior Software Engineer

January 2024 - May 2025

Dynamic Systems LLC

Green Bay, WI

Contributed to designing and implementing software solutions within healthcare technology projects. Focused on utilizing object-oriented principles to deliver results that improved system functionality and user interaction.

- Participated in collaborative sessions aimed at crafting innovative healthcare software.
- Employed rigorous testing methodologies to guarantee the highest quality standards.
- Applied problem-solving skills to address issues promptly, meeting project deadlines.
- Assisted users in understanding new functionalities, fostering trust in technological enhancements.

Academic Project

September 2024 - May 2025

University of Wisconsin-Madison

Madison, WI

Worked on a collaborative capstone project focused on developing a simulated MR reconstruction application utilizing high-performance computing techniques, including GPU resources.

- Designed key algorithms for MR imaging techniques that served as prototypes for real-world applications.
- Utilized C++, focusing on optimizing code for scalability and usability.
- Engaged cross-disciplinary discussions, marrying biomedical concepts with software development.
- Tested and validated models, ensuring alignment with academic and industry standards.

LEADERSHIP & AWARDS

- Dean's List for Academic Excellence, University of Wisconsin-Madison, 2024
- Outstanding Technical Contribution Award, Dynamic Systems LLC, 2025

CERTIFICATIONS

- Certified C++ Programmer 📅 2026
- CUDA Parallel Programming Certification 📅 2026

PROFESSIONAL AFFILIATIONS

- Member, Society of Software Engineers at University of Wisconsin-Madison
- Volunteer, Tech Outreach Program for Local Schools

LANGUAGES

- English (Native) • Spanish (Intermediate)

ADDITIONAL INFORMATION

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

REFERENCES

AVAILABLE ON REQUEST