Senior Software Engineer

📍 Waukesha

Apply

**Job Description Summary**
Responsible for programming a component, feature and or feature set. Works independently and contributes to the immediate team and to other teams across business. You will also contribute to design discussions.

**Job Description**

**Roles and Responsibilities**
In this role, you will:

- Be responsible for defining, developing, and evolving software in a fast paced and agile development environment using the latest software development technologies and infrastructure
- Provide technical leadership to an agile team of 3-6

**About Us**

GE (NYSE:GE) rises to the challenge of building a world that works. For more than 125 years, GE has invented the future of industry, and today the company’s dedicated team,
• Translate requirements / vision into prioritized list of user stories and deliver to required timelines and quality standards
• Design and implement solutions to complex data management and distributed processing software problems in the reconstruction platform domain in accordance with established software development practices and processes.
• Plan and perform integration activities at component, sub-system and system levels. Document designs and verification activities; perform component & subsystem level verifications, participate in system level verifications and validations as necessary.
• Understand research and industry trends in the area of MR reconstruction and MR image processing applications
• Work with product line leaders and architects to develop multi generation software technology plans
• Drive increased efficiency across the teams, eliminating duplication, leveraging product and technology reuse
• Support process improvements which guide the development, sustaining & support activities
• Ensure team receives consistent messages and has clear understanding of business direction, strategy and results
• Engage subject matter experts in successful transfer of complex domain knowledge
• Apply principles of SDLC and methodologies like Lean/Agile/XP, CI, Software and Product Security, Scalability, Documentation Practices, refactoring and Testing Techniques
• Write code that meets standards and delivers desired functionality using the technology selected for the project
• Understand performance parameters and assess application performance
• Work on core data structures and algorithms and implement them using technology chosen
• Proactively share information across the team, to the right audience with the appropriate level of detail and timeliness

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Quality Goals, and applicable laws and regulations as they apply to this job type/position
Complete all planned Quality & Compliance training within the defined deadlines
Identify and report any quality or compliance concerns and take immediate corrective action as required
Ensure compliance/closure of Regulatory and Quality requirements before approving Design Outputs/Program Deliverables
Lead continuous improvement activities by driving the implementation of process and product quality improvement initiatives

Required Qualifications

- Bachelor's Degree in Computer Science, Electrical Engineering or Computer Engineering
- 8 years experience
- Experience with Linux based programming on X86 systems.
- Experience in object oriented design methodology and various programming languages, including C/C++
- Working knowledge in configuration management tools such as Git

Desired Technical Expertise:
- Master's Degree/ PHD in Computer Science, Computer Engineering or Electrical Engineering with a minimum experience of 5+ years
- Familiarity with Python, Deep learning, Machine learning, Image processing, Image reconstruction and computer vision
- Demonstrated proficiency in C++ programming and Object oriented programing concepts applied in a production software environment.
- Demonstrated expertise with MATLAB or equivalent scientific modeling tools & packages
- Experience with Parallel computing concepts and tools
Experience with MR Reconstruction processing pipelines; knowledge of various corrections in K-Space and Image space;
Knowledge of emerging Non-Cartesian Acquisition/Reconstruction Techniques, motion correction techniques and MR image artifacts will be an added plus.
Working knowledge of MR pulse sequences/acquisition techniques and K-space sampling strategies utilized by various clinical applications.
Strong understanding of imaging acceleration techniques including parallel imaging and compressed sensing.
Experience with GE MR Research reconstruction processing.
Experience with High Performance Compute or GPU technologies such as Open CL, Tensor Flow
Experience working with C++ and Python IDEs (Eclipse, CLion, Visual Studio, XCode, PyCharm)

GE offers a great work environment, professional development, challenging careers, and competitive compensation. GE is an Equal Opportunity Employer. Employment decisions are made without regard to race, color, religion, national or ethnic origin, sex, sexual orientation, gender identity or expression, age, disability, protected veteran status or other characteristics protected by law.

GE will only employ those who are legally authorized to work in the United States for this opening. Any offer of employment is conditioned upon the successful completion of a drug screen (as applicable).

Relocation Assistance Provided: Yes