



Job Title: Senior Software Developer (GPU focus)

Location: Poway, CA

Department: Software Engineering

Reports to: Sr. Software Development Manager

- Required Education:**
- Bachelor's degree in computer science, information systems or related discipline
 - Master's degree preferred

- Required Experience:**
- 5+ years progressive software development experience with a bachelor's degree. May substitute equivalent experience in lieu of education.
 - Must have a deep understanding of software development concepts, principles, theory and demonstrate the ability to follow & apply the use of good programming & analysis concepts
 - Must possess the ability to understand new concepts quickly and apply them accurately throughout an evolving environment and organize work assignments to meet established timetables
 - Established experience interfacing with other team members to present documentation and results to internal audience
 - GPUs and optimizing code to work on GPUs
 - Commercial software product development a plus

- **Operating Systems:** Red Hat Linux, Centos (with GPUs)
- **Languages:** C++, Python, Java, SQL, UNIX Shell Scripting, Oracle PL/SQL, CUDA
- **Databases:** MySQL, Oracle, Apache Hadoop
- **OS Environments:** Windows, Linux
- **Libraries:** STL, Boost libraries, ZeroMQ, QT, ITK, VTK
- **Tools:** MS Office, Visio, Visual Studio .Net, MagicDraw, Matlab, Git, Gerrit

- Required Attributes:**
- Excellent Problem-solving skills
 - Effective communication skills
 - Ability to multitask and prioritize
 - Can work independently and on a team

Responsibilities: Under general supervision and with regular review, the Senior Software Developer researches, designs, develops and/or modifies end-user, system level and data management software applications.

- Contributes in planning of application development and deployment as well as responsible for meeting software compliance standards
- Evaluates integration of software applications with the overall computing environment
- Responsible for documentation, testing, maintenance, and software updates
- Communicates with domain experts, users, and management throughout the software development lifecycle
- Provides guidance to and mentors other software developers as needed
- Determine user requirements and specifications and plan for software development within the broader organizational scope. Software development includes end-user, system level, and data management applications
- Works with the Software Architect to ensure software designs fit within the overall system architecture.
- Formulate detailed plans for the implementation of software solutions. In addition to program design this includes determining language, platform, and resource requirements as well as optimization of algorithms to work on GPUs
- Provides guidance to and mentors other software developers as needed
- Implementation of design including coding, testing, and documentation
- Deployment of applications including cross- platform compliance and insuring availability of necessary resources
- Code maintenance including debugging and updating to keep pace with the evolving environment
- Assist in planning for future applications based on new developments in computer technology
- Communicate with the software developer group, with users, and with management. Maintains the strict confidentiality of sensitive information
- Must be able to work extended hours as required
- Perform other duties as assigned

Physical Requirements: Must be able to operate a computer, phone, fax, copy machine, and other related office equipment. A variety of standing and walking throughout the day; may be required to lift of up to 20 pounds.

Compensation: Competitive salary plus benefits (Health, Dental and Vision care plans; HSA/FSA; Short and Long term disability; Life insurance; 401k vehicle and tuition assistance program.

Background: The selected candidate will be required to pass a criminal history background check, which includes a drug screen.

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