Comet Solutions, Inc.
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TITLE: Senior Software Engineer

Location: Albuquerque, NM; Cincinnati, OH; or Metro Detroit, MI;

Comet Solutions, Inc. provides software-based engineering solutions used by product development workgroups within manufacturing companies to make better conceptual design decisions, and to perform multi-disciplinary design evaluations rapidly by automating time-consuming simulation processes. Within Comet's Simulation Automation Workspace, engineering analysts capture simulation knowledge, processes and models (i.e., engineering intent) in templates which enable simulation experts to work more effectively and *also enable non-experts to safely run complex simulation studies using* SimApps, starting earlier in the product design process.

Comet Solutions offers a challenging career full of opportunities for growth. We are looking for energetic and ambitious professionals who can think outside the box, are driven to succeed, and are looking to work on a revolutionary, unique platform for simulation automation that is used by many well-known Fortune 500 companies in the US and many large companies in China. *We do not do "CAE Business-As-Usual"*!

Job Description:

Comet Solutions is seeking a senior software developer for designing and developing our flagship Automation Workspace with a primary focus on interfacing with commercial CAE and CAD tools.

The successful candidate will participate in all aspects of software development but will have a focus on enhancing and maintaining the CAE adaptors within Comet. This is a high-impact role for the company's success because a major competitive advantage of our product is the mapping between the Comet data model and engineering abstractions, and the data of these external CAE tools. Engineering domain knowledge and experience with end-user commercial CAE and CAD software is highly desired.

Requirements:
- MS or equivalent degree in Civil, Mechanical, or Aerospace Engineering, and/or Computer Science.
- Proven experience in object-oriented C++ design and development.
- Experience designing and developing data-driven, large-scale software platforms.
- Solid understanding of CAE data structures. Knowledge of CAD and geometric data structures is desirable.
- Experience creating and running models using commercial CAE tools.
- Knowledge of XML and XML-related technologies and C# is desirable.