Xiansong Zeng Jun 16, 2023

1607 Timber Creek Dr

Missouri City, TX 77459

Dear Hiring Manager,

I am writing to express my sincere gratitude for the opportunity presented by your company. I am thrilled about the job position **Software Engineer** as it aligns perfectly with my technological expertise. With a solid background in math, physics, and computer science, I am confident that I can make a significant impact if given the chance to contribute to your organization.

In 1996, I obtained a Ph.D. in applied geophysics from the University of Toronto, and since then, I have amassed over 20 years of experience working as a geophysicist and a software engineer in the Research and Development group of reputable oil and gas services companies.

Throughout my career, I have gained hands-on experience in implementing a wide range of numerical algorithms, including Newton's method, the bisection method, Fast Fourier Transform, Singular value decomposition, Runge-Kutta methods, and Gradient descent methods. I have leveraged this expertise to develop cutting-edge software solutions for signal processing, image processing, data processing, and visualization using languages such as C, C++, and python.

One of my key accomplishments has been designing and developing seismic data processing modules, equipped with highly accurate numerical algorithms tailored to meet production needs and requirements. These modules have consistently performed in production environments, demonstrating my commitment to enabling better capacity, elasticity, and resilience.

Furthermore, I possess practical hands-on experience across all phases of the software development life cycle, including the creation of release notes and user documentation. Once my solutions were stable in production usage, I took on the responsibility of routine maintenance and providing user support.

My passion for scientific research and development is unwavering, and I am excited to contribute my skills and expertise to your esteemed company. Please find my resume attached for your review.

I firmly believe that my capabilities and dedication would make a valuable impact on your organization. I can be reached at xiansongz@gmail.com or 281-995-0665 at your convenience. Thank you for considering my application, and I eagerly await the opportunity to discuss how I can contribute to your team.

Thank you for your time and consideration. I look forward to hearing from you soon.

Sincerely Yours,

Xiansong Zeng

Bottom of Form