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Dear Recruiter,

With a strong foundation in software development (C#, C, C++, MATLAB, Python, JavaScript, TypeScript, Julia) and applied mathematics (statistics, data science, and numerical algorithms), combined with my proven track record of delivering and maintaining high-quality software, I hope that you will find me to be a strong candidate for the position.

During my tenure at Virginia Tech, I earned significant graduate-level credits and engaged in cutting-edge research in linear algebra, finite elements, and machine learning using neural networks. This foundation facilitated a transition to a role as a Research Engineer with the U.S. Army Corps of Engineers. A particularly notable project involved the maintenance and extension of the Adaptive Hydraulics Model System, a highly complex codebase consisting of over a hundred thousand lines of C and C++. Another notable project was the development of machine learning based hydrology and ocean models in Python, including data visualization. These two experiences showcase my ability to apply complex mathematical concepts to practical engineering challenges across a wide variety of tech stacks.

In recent years, technical leadership and contributions to numerous closed and open-source projects have been my main focus. Of particular note is "Arctic Eggs", a complete game set to ship in Q2 2024, for which I developed many core systems, demonstrating my commitment to seeing long-term projects through to completion. Another project of note is a well-regarded (70+ stars) architecture guide for the Godot game engine which I maintain, showcasing my deep understanding of modern software architecture practices and my ability to communicate clearly to wide audiences. The final thing I would like to highlight is my role as a technical lead for numerous game jam projects, showcasing my ability to coordinate teams and rapidly prototype solutions under extreme time constraints.

Thank you for considering this application. I eagerly anticipate the possibility of contributing to the ongoing success of your team. My skills and passion for software development and applied mathematics are ready to be brought to your benefit.

Warm regards,

Angelo B. Marney