

**Logan Reed**  
Philadelphia, PA  
☎ (512) 839 - 6662  
✉ [logan@loganreed.org](mailto:logan@loganreed.org)

**Lockheed Martin**

July 28, 2023

To whom it may concern,

I am excited to apply for the role of Software Engineer at Lockheed Martin. During graduate school I assisted multiple groups of researchers construct pipelines to manage large databases, and I am excited to support Lockheed Martin in a similar way. I have a huge amount of respect for your ability to use advanced scientific projects to protect the U.S.A, and I'm thrilled to bring my passion and deep understanding to Lockheed Martin.

When I wrote the code for my master's thesis, I faced a few significant technical challenges. The primary library was in Fortran and was abandoned years ago without documentation. I created a low-level interface through C to Python and also had to connect it through runner code to GPU parallel computing libraries and a socket-based visualization program. This code ran on a distributed cloud computing environment owned by Rutgers, and I had to emphasize CI/CD to avoid losing hours of computing power. The computed data was stored in a MariaDB database, which eventually resulted in my thesis. I wanted to share this experience since it would be reasonable to see my career thus far as disconnected from the position, but I have a deep knowledge of the field.

The first time I worked under a group of senior-level bosses I was assigned the programming portion of a 15 person research project. They were biologists and did not have a strong grasp of programming. Despite this, I exceeded my goals and deadlines, and we rapidly built up a clear line of communication. Through my experience as a private tutor and lecturer, I've become very proficient at communicating complex topics to people with diverse backgrounds. I believe that the combination of my technical skills and my soft skills will make me an invaluable person to have on the team.

Thank you for your time and consideration. I look forward to discussing the position and what I have to offer Lockheed Martin.

**Logan Reed**