I am interested in applying to the Software Developer position at Cerner in Malvern, Pennsylvania. I learned about this position through my family member Young Liu, then found the referral application for the position on your company website. I am applying for this position because I believe I have met and exceeded the requirements to make me an ideal candidate for this job.

My first technical work experience was at Capstone Surgical Technologies, where I was able to have a significant impact on the pipeline for their flagship product, a robotic surgeon. As a part of the surgery process, the robot uses CT scans processed in C++ to orient itself to the patient. Using my university studies, I was able to reduce the CT processing time from 30 minutes per scan to 3 minutes, a 10x decrease in runtime. I know that all software developer positions rely on a basic set of data structure and algorithmic knowledge, and I know this result demonstrates my technical capabilities in this regard. It also shows my ability to quickly understand, improve, and debug legacy applications, which will allow me to smoothly integrate into Cerner’s technology stack.

At my internship at Capital One this past summer, I gained experience working as a professional software developer. My project was a RESTful API in Golang and PostgreSQL for assisting CSM sales employees. During the development process, I learned how to integrate into a corporate workflow. I wrote unit and integration tests, some in bash scripts, to ensure code quality before release. My conversations with the CSMs who used my project helped me understand the perspective of clients and, talking with the Mountaineers team helped me understand how to translate the requirements into technical features. I know that I can positively impact Cerner’s products through the time I spent at Captial One.

I am also currently working on a Javascript-based personal project, Shaped. I am the lead backend developer, working on a Firebase database with a Nest.js framework for the API. This project had a long gestation period, with many months of design before starting the technical work. This required many conversations with non-technical team members explaining why certain ideas could or could not work, and many more conversations with the technical team members to meet our deadlines. In addition to displaying my technical experience in Javascript, this project shows my ability to work within and lead a team.

These experiences I had as interns at Capstone and Capital One and with working on Shaped demonstrate that my technical and non-technical skills make me an ideal candidate for this job and allow me to contribute to Cerner’s success. I look forwards to discussing the Software Developer position and my qualifications in more detail.

Justin Lee