Barrett Simms is an independent developer who frequently designs user-friendly applications for a variety of companies. He is responsible for picking the technology and building the architecture. Once the toolset and architecture is built, he forms a team of developers and leads development to release.
**CHALLENGE**

Recently, a company approached Barrett to create an application that could be used by doctors, hospital administrators, and patients to perform population analysis based on patient records in their database. The solution required two parts: an analytics dashboard used by the doctors and hospital administrators, and a big data back-end solution used by the hospital IT administrators. The front-end UI web application required user management, grids, graphs, and other controls. The back-end UI needed a WPF application to load and monitor data in a cloud-based big data solution.

**SOLUTION**

The administration application was built using Essential Studio for WPF, which Barrett chose because it supports MVVM Light and has excellent grid, data visualization, and navigation controls. Barrett had millions of patient records that needed to be loaded and monitored. The Syncfusion DataGrid and visualization controls allow hospital IT administrators to monitor the load process for millions of records quickly.

The web front-end is used by doctors and medical administrators. The UI allows medical coders to review and analyze individual patient records to identify medical conditions. In addition, hospital administrators and doctors are able to view and monitor population health metrics in real time. The Syncfusion JavaScript Grid, data visualization, navigation, and editor controls were chosen for their ease of implementation and Bootstrap support.

Syncfusion has provided Barrett with capabilities he would not have found in any other toolset. According to Barrett, “If I have a choice, I choose Syncfusion.”

**BENEFITS**

- Saved 10% development time.
- Easily customizable controls.
- Easy implementation.
- Excellent documentation and examples.