

## Skills Summary

Accomplished senior software engineer – working individually, as a team member, and leading mid-size teams with an emphasis on enterprise-scale software development:

- Highly skilled in C#/.NET – having authored commercial SaaS software products from the ground up
- Experienced with front-end web UI frameworks – such as React and Angular
- Skilled with many additional languages – such as Elixir, Go, and Python
- Well versed in cloud hosting platforms – having built, deployed, and managed Azure, AWS, and IBM solutions
- Proficient with common frameworks – such as Docker, Kubernetes, Nomad, and microservice architectures
- Strong working knowledge of database platforms – utilizing SQL Server, PostgreSQL, and NoSQL datastores
- Proficient in system administration – Linux-based server environments as well as cloud resource management

## Employment History

Jan 2022 – Present	<b>CEO and Founder</b>	<i>Red Kingdom Labs, LLC – Las Vegas, NV</i>
	Founded a multi-purpose software R&D firm to develop technology solutions that create passive income streams:	
	<ul style="list-style-type: none"><li>• Implemented high-speed bidding and minting software for algorithmic NFTs</li><li>• Developed and deployed internal tooling in Elixir using Phoenix</li></ul>	
Sep 2020 – Jan 2022	<b>Sabbatical</b>	
May 2016 – Sep 2020	<b>Lead Software Engineer</b>	<i>Quest Analytics, LLC – San Diego, CA</i>
	Built and led teams of software engineers building applications on the .NET platform with an emphasis on cloud SaaS product creation:	
	<ul style="list-style-type: none"><li>• Authored, refined, and maintained the company's cloud-based application platform that is now widely adopted by healthcare companies as well as state and federal government agencies, such as Medicare, to measure and improve access to care for all Americans</li><li>• Expanded the company's cloud-based data management and compute capabilities to auto-scale and handle the analysis request and database volume of the largest insurance companies in the United States</li><li>• Built enterprise scale infrastructure to manage and analyze billions of data points</li><li>• Developed additional functionality to integrate the company's cloud solutions with state entities such as the New York State Department of Health</li><li>• Built data analysis, visualization, and alerting services to identify and remediate data inaccuracies in medical, dental, and pharmacy provider data</li><li>• Served as a key technical and software design advisor during the development of a national online healthcare provider directory solution utilizing web-based technologies and multiple points of integration with client legacy systems</li><li>• Designed and implemented the company's DevOps production infrastructure, built the CI/CD pipelines used for all deployments, and coordinated maintenance and monitoring with engineering and operations teams</li><li>• Contributed to multiple rounds of technical due diligence from the perspective of both the buyer and seller in support of various merger and acquisition transactions</li><li>• Onboarded and trained over 50% of the engineering staff at the time of departure</li></ul>	

# Duncan Hill

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May 2015 – May 2016

## Senior Software Engineer

Quest Analytics, LLC – Kansas City, MO

Designed and developed the foundation for the company's cloud-based healthcare network analytics platform:

- Took input from both the engineering and sales teams to produce an initial series of prototype applications that were used to solicit and measure customer interest
- Coordinated development with technical leadership to produce an architecture for running dynamic analyses on Microsoft Azure at enterprise scale
- Designed an asynchronous job processing system that leveraged dynamic Azure cloud resource management technologies for on-demand scalability and fault tolerance
- Built and deployed an MVP of the company's cloud platform, resulting in running the first cloud-based healthcare provider network adequacy analysis
- Mentored new and junior software engineers to accelerate the new employee onboarding process and maximize team productivity

June 2010 – May 2015

## Software Engineer

Quest Analytics, LLC – Kansas City, MO

Developed internal applications to support company operations:

- Implemented numerous enhancements to the company's flagship WPF desktop software application – combining elements of geographic information systems, desktop publishing and data analysis
- Enhanced the company's core .NET class libraries to further support the server and developer API products utilized by Federal healthcare regulatory agencies
- Designed and authored a WPF-based desktop application for researching and correcting street addresses and their corresponding geographic coordinates
- Built, deployed and supported the company's intranet site used for managing client software license configurations, PTO reporting, and general-purpose resource tracking
- Developed a WPF-based desktop application for website content management

## Education

University of Missouri, Columbia (BS in Computer Science, GPA – 3.659) ..... May 2015