John Bartos

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Summary

A rising engineer with strong hardware and software knowledge, proven results developing full-stack applications, and passion for learning to create great software

Education

Rutgers, The State University of New Jersey, School of Engineering, New Brunswick, NJ
Bachelor of Science, Electrical and Computer Engineering, May 2014

Skills

Languages: C#, JavaScript, HTML5, CSS3, Python, PowerShell, Bash, SQL,
Technologies: MongoDB, Express, Angular, Node, Bootstrap, JQuery, Visual Studio, SQLServer, Microsoft.NET, ASP.NET, Git

Work Experience

DataOnline LLC *June 2014-Present*

- Pioneered work on an HTML5-based pilot utilizing the MEAN stack, resulting in approximately 400% increase in page load speed over the current Silverlight platform
- Developed and improved several PowerShell scripts for expanding automation of our build and deployment processes, enhancing the efficiency and reliability of the DevOps team
- Designed a RESTful token-based authentication microservice in C# ASP.NET capable of securely providing tokens in approximately 20ms
- Overhauled JavaScript mapping application, streamlining the user interface in addition to providing Baidu Maps support for customers in China
- Engineered and documented a process for creating WiX Installers, enabling automatic installation of Visual Studio 2013 solutions
- Alleviated database load by developing a microservice to perform costly packet counting operations in memory, reducing total SQL reads by over 2 million per minute, per page instance while improving corresponding page load time by 30 seconds
- Devised a microservice to monitor communication between DataOnline's Dolv3 platform and over 150,000 remote telemetry units in real-time, enabling automated monitoring of network health and rapid resolution of service issues
- Architected and implemented a RESTful API between DataOnline's DolV3 platform and the eWon Flexy remote telemetry unit, enabling integration of sensor data from customers utilizing PLC devices

Rutgers, The State University of New Jersey, Sequence Analyzing and Modeling Lab (SEQAM) *May 2013-May 2014*

- Constructed a system for catching a ball with an autonomously controller quadcopter, relying solely on data streamed from the Microsoft Kinect
- Utilized a Kinect and a projector to draw the calculated landing point of a ball in real-time, achieving an average accuracy of approximately 3cm

Projects

Personal Website – johnbartos.io

- Independently designed and developed a personal website for showcasing projects, skills, and ideas
- Constructed the site as a single-page application with the MEAN stack, resulting in high performance and a streamlined user experience
- Modernized styling with Twitter Bootstrap, creating a responsive website compatible with mobile devices