**John Bartos**jbartos7@gmail.com – johnbartos.io

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**Summary**

A rising engineer with strong knowledge of computers at several layers of abstraction, experience developing full-stack applications both collaboratively and independently, and passion for creating 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#, C, 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 our 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
* Collaborated with company owners to design a Helium ISO data visualization demo for ITCO 2015

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

* Constructed a system in which an autonomous quadcopter maneuvers to catch a thrown ball, relying solely on data streamed from the Microsoft Kinect
* Developed a custom PID controller algorithm for smoothly controlling a quadcopter in 3D space
* 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 utilizing the MEAN stack
* Integrated hos
* Researched and utilized current best practices to