

John “JJ” OBrien

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Work Experience:

Datafinch Technologies

Systems Engineer

06/2016 to Present

Atlanta, GA

Full-Stack .NET Developer on an Agile(Scrum) team dedicated to the support and development of Datafinch's flagship data collection product, Catalyst (June 2016 – Present)

Primary Responsibilities:

1. Development of new features and enhancements to all components of product, including the Web Portal, Android Application, and iOS Application
 2. Triage, Debug, and Resolve bugs reported by Customer Service team
 3. Main API developer on Catalyst team
- Technical Environment: .Net MVC Framework, Xamarin (C# Mobile Development Platform), SQL Server, Microsoft Azure
 - Programming Languages: C#, SQL, Typescript/Javascript, HTML

Deloitte Consulting, LLP

Business Technology Analyst

09/2014 to 05/2016

Arlington, VA

Full-Stack .NET Developer with a Public Trust clearance on an Agile(Scrum) team dedicated to the development of web-based applications as a contractor to an agency of the US Federal Government in the national security sector (August 2015 – May 2016)

Projects:

1. Primary developer for **refactoring of mission-critical application** including:
 - Enhanced existing Windows Service used to communicate with thousands of users nationwide via XMPP server
 - Rebuilt web application using MVC framework (Entity Framework)
 - Designed and developed, with minimal support, two new Windows Services used to enhance system functionality
2. Designed, developed, and debugged enhancements for **internal, .NET web-application** according to customer specifications
3. Developed enhancements to **Oracle-based business applications** for the above-mentioned government agency as part of an Agile/Scrum team (October 2014 – July 2015)

Other Responsibilities:

- Met regularly with Federal Government employees to communicate progress of application enhancement requests.
- Teaching Assistant for internal Java Associate Certificate preparation class
- Technical Environment: .Net Framework(current project), MS SQL Server 2008 (current project), Oracle Application Express (previous) and Oracle 11G Database(previous)
- Programming Languages: C#, SQL, Javascript, HTML, CSS

Guardian Pharmacy, LLC

Technical Data Analytics Intern

07/2013 to 05/2014

Atlanta, GA

- Developed applications to automate processes in Business Analytics, Accounting, and Human Resources
- Built a custom SharePoint workflow to manage new vendor approval process
- Built custom SharePoint web application that interfaced with a barcode scanner to import and reconcile in SQL Server all outgoing and returned prescriptions
- Technical Environment: MS SQL Server 2008 with MS Access or SharePoint front-end (depending on application)
- Programming Languages: Visual Basic for Applications (VBA), T-SQL, Javascript, HTML, CSS, Java

**Enterprise Innovation Institute (EII)
at Georgia Tech**

Undergraduate Researcher

05/2012 to 05/2014
Atlanta, GA

- Utilized Visual Basic scripts to analyze Web of Science citation data to assist EII's researchers in bibliometric analysis
- Created "ClusterSuite", a data analysis macro built as a plug-in for VantagePoint (see Selected Publications)
- Corrected erroneous statistical calculation in Java application, "TermCluster", to be consistent with the original intent of the author
- Combined TermCluster and ClusterSuite into one system.
- Technical Environment: Macros written for VantagePoint
- Programming Languages: Java, Visual Basic scripting language, SQL, HTML/CSS

Search Technology

Independent Contractor

01/2013 to 06/2013
Norcross, GA

- Created and formatted database of bibliometric information pertaining to a National Science Foundation research project
- Wrote Visual Basic scripts to assist in creation and manipulation of database

Education:

Georgia Institute of Technology

08/2009 to 05/2014

- Bachelor of Science in Public Policy
- Outstanding Public Policy Undergraduate Student of 2013

3.42 GPA

Selected Publications:

- Matisoff, Daniel C., Douglas S. Noonan, and John J. O'Brien. "Convergence in environmental reporting: assessing the Carbon Disclosure Project." *Business Strategy and the Environment* (2012): 1-21.

Software and Operating Systems:

- **Mobile Development:** Xamarin (C# Mobile Development Platform) and Android SDK
- **Serverless Functions:** Azure(Microsoft), Lambda (Amazon)
- **Database Tools:** SQL Server Management Studio, SQL Developer, SQLPlus
- **Relational Databases:** SQL Server, Oracle 11G Database, MySQL
- **API Development:** Postman
- Oracle Application Express (APEX)
- Source Control: Git, Subversion
- Atlassian's JIRA
- ArcGIS
- PuTTY, WinSCP
- Search Technology's VantagePoint
- **OS:** Windows, Linux (Debian, Ubuntu, Mint), Solaris
- **IDE:** Visual Studio, Android Studio, Eclipse, Arduino IDE, IDLE

Programming Languages:

- C Family (Java, C#, C)
- SQL (including T-SQL and PL/SQL)
- Arduino (C++)
- Visual Basic for Applications (VBA)/ Vbscript
- Python
- Node.JS
- Web: HTML, CSS, Javascript, Typescript, Coffeescript, ASP.NET

Certifications:

- Oracle Certified Associate, Java SE 7 Programmer

03/2015

Conference Posters:

- Porter, A.L., Schoenek, D.J., O'Brien, J.J., Solomon, G., Lakhani, H., and Dietz, J.S., Connections: Patterns of links between STEM education research and other disciplines, Atlanta Conference on Science and Innovation Policy, Atlanta, September, 2013.
- O'Brien, J.J., Carley, S., and Porter, A.L., Keyword field cleaning through ClusterSuite: A term-clumping tool for VantagePoint software, Global Tech Mining Conference, Atlanta, September, 2013.
- Porter, A.L., Schoeneck, D.J., Solomon, G., Lakhani, H., Dietz, J., and O'Brien, J., Assessing Science, Technology, Engineering and Mathematics (STEM) Education (ED) research, Annual Conference of the American Evaluation Association, Washington, DC, 2013 (Oct.).
- Zhang, Y., O'Brien, J., Carley, S.F., Porter, A.L., Youtie, J., and Zhou, X. Extracting topical content from research publication and patent text, Annual Conference of the American Evaluation Association, Washington, DC, 2013 (Oct.).

Personal Projects:

- **Personal Email Server:** I built and maintain a personal email server (<https://mail.jobrien9.com>). The server uses instances of Postfix and Dovecot running on Debian "Wheezy" hosted on a Virtual Private Server
- **Dart Frog Humidity Sensor:** Using a "Photon" (wifi-connected microcontroller), I collect hourly data from a DHT11 humidity sensor in a dart frog terrarium. The data is stored online at <https://thingspeak.com/channels/309447>. I created an "Alexa skill" for the Amazon Echo device that reads the humidity value from a RESTful API endpoint and dictates it aloud upon request.