

# Ryan McDowell

Software Engineer

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## Technical Summary

**Languages:** Java, JavaScript, C#, Groovy, Python, Bash

**Source Control:** Git, TFS

**Databases:** MongoDB, SQL Server

**Web:** NodeJs, AngularJs, Grunt, Yeoman, Bower, CSS, Bootstrap, JQuery

**Middleware:** Mule, Tomcat, JBoss, IBM MQ

**Build Tools:** Jenkins, Bamboo

**Enterprise Data:** Markit EDM

**Design/Concepts:** Agile, Kanban, Data Warehousing

## Experience

**Neuberger Berman**

2015 - Present

***Lead Developer, Enterprise Data Services, AVP***

- Set the firm standards for RESTful API design practices.
- Designed and implemented the first micro-service architecture at the firm for RESTful web services. The implementation was presented at NB's tech talks and was used as the firm standard for creating micro-services.
- Redesigning a legacy data-mart implementation. Reduced ETLs by 60% and increased throughput of development by 300%. This also led to setting a firm-wide standard for database security.
- Quickly became the de facto expert on the Mule ESB platform. This resulted in training other employees and helping to debug issues as other teams at NB began to adopt the technology.
- MeatBall. The application was built using Mule ESB, AngularJs, Bootstrap, Grunt, Bower, and NodeJs. The tool was adopted as a firm-wide solution for file validation and lightweight transformations. Currently processes over 2,000 workflows per day and 100% of the files incoming and outgoing from the data-platform.
- Oversaw the design of over 1,500 Tidal Scheduler jobs. Was able to reduce the development time needed for additional batch processes by creating stream-lined flows for incoming data-sets.
- Led design and implementation on a composite benchmark engine. The engine was responsible for recomputing benchmark analytics for components within the constituents.

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## **Neuberger Berman**

2012 - 2015

### ***Developer, Trade Management***

- Created an enterprise application for viewing application logs. Logs were written to MongoDB using the Log4J adapter and a JQuery UI was built . Reduced developer and QA access to production and staging environments.
- Developed a FIX-based reporting application to report TRACE trades to FINRA via Appia. The application was built on top of Mule ESB and integrated with a trade routing system via IBM MQ and REST web-services.
- Co-created a new technology program at NB. The program's purpose was to introduce and promote awareness of new technologies being used by the IT community. Led and presented several internal trainings on Git, AngularJs, NoSQL, and MongoDB.
- Built a Bloomberg per security web-service. The web-service allowed IT to restructure their licensing with IDC and saved the company approximately \$500k per year.
- Attended meet-ups in the Chicagoland area for AngularJs and co-organized

## **Education**

### **Bachelor of Science in Computer Science**

December 2011

DePaul University, Chicago, IL

### **Masters of Science in Computer Science**

Expected May 2017

DePaul University, Chicago, IL