

CONTACT hello@bernardwolff.com | 267-574-4561 | New York City or Remote
INFORMATION

PROFESSIONAL **Insider Intelligence (eMarketer)**
EXPERIENCE *Senior Software Engineer*

New York, NY
9/2016 - present

- Developed and maintained various distributed, fault-tolerant, message-driven, microservices which communicate over NServiceBus on Azure ServiceBus and AWS SQS.
- Created a service for uploading chart images and metadata to S3 for display on the site (React, Typescript, HotChocolate, GraphQL, C#, MongoDB).
- Created a [GRANDstack](#) (GraphQL, React.js, Apollo, Neo4j Database) app to host proprietary forecasting data in a graph database and allow the data to be dynamically visualized in custom charts with Chart.js
 - Worked closely with the forecasting team to design to their specifications.
 - Attended GraphTour conference for Neo4j.
 - Rapid iterative development with weekly live demos.
- Led development of [analyst pages](#) plus a management UI, to show information about eMarketer analysts and their content (Next.js, React.js, Typescript, GraphQL, HotChocolate, .NET Core, MongoDB, MaterialUI).
- Mentored and led junior developers, coordinated with front-end developers, designers, and product managers to meet requirements and exceed expectations.
- Key team player in unifying two platforms (eMarketer and Business Insider Intelligence) into one.
- Key engineer carrying out migration of all services from Azure to AWS.
- Created a custom authentication (JWT) and registration system for eMarketer PRO, including a standalone login/signup remote React component that is dynamically loaded at runtime onto various parts of the site.
- Primary resource for client integrations of an internally developed SAML SSO system.
- Created [category pages](#) which aggregate related content onto a single page and help the company's SEO.
- Created a general purpose [database comparison tool](#) for SQL/MongoDB databases (declarative config file driven).
- Carried out CI/CD production deployments and smoke tests, using TeamCity, Octopus, Kubernetes, and EC2.
 - Wrote and maintained Dockerfiles for deployment to Kubernetes
- Contributed to custom search service, implemented with Elasticsearch.
- Created the eMarketer Retail site, plus a custom CMS to manage articles for the site, implemented in React.js.
- Wrote unit and integration tests for key system components, using NUnit and NSubstitute.
- Worked on an Agile team with daily scrums, two week sprints, estimating sessions, and retrospectives.
- Took multi-day in-person Golang training course with GopherGuides

TNTP

Software Developer

Brooklyn, NY
11/2012 - 9/2016

- Primary developer for Insight (survey reporting system), used both internally and by school principals to gain insights into instructional school culture. Used at tens of school districts nation-wide. Implemented with C#, Javascript, Knockout, SQL Server, Entity Framework, and Bootstrap.
 - Distilled Survey Gizmo API client into a stand alone open source project, [NSurveyGizmo](#).
 - Created custom [Knockout grid](#) used across the application. Pushed to Github as open source.
- Key developer for TeacherTrack2 (applicant tracking system) used by thousands of candidates and dozens of teaching fellows programs nation-wide. Technologies used: C#, ASP.NET MVC, MongoDB, Javascript, Lucene, Knockout, jQuery, KendoUI, RequireJS, Bootstrap.
 - Transition application from ASP.NET WinForms to ASP.NET MVC backend with a Knockout and Javascript service front end.
 - Integrated Kaltura video, to allow users to upload and interact with video directly through application.
- Maintained build/deployment system running under Cruisecontrol.NET, including a custom database backup/restore solution, which uses PowerShell APIs for AWS S3 and EC2.
- Performed off-hours end-of-sprint production code releases.
- Worked on an Agile team with daily scrums, two week sprints, estimating sessions, and retrospectives.
- Engaged in regular R&D days to explore new technologies that could be used in production software.
- Wrote knowledge-sharing articles on company wiki to encourage collaboration between the technology team and the rest of the organization.
- Created a tool to help all members of the organization choose an appropriate health plan. Released as open source [on Github](#). Written in Javascript, using D3.js and jQuery.
- Served as a secondary QA resource for end-user testing of all applications.
- Wrote web tests using Selenium to ensure continued functioning of web applications.
- Wrote unit and integration tests for all parts of the system, using MSTest, Moq, SpecFlow.
- Served as a key contributor for transition from traditional hosting environment to AWS.
- Attended two different week-long developer conferences, for HTML5 and MongoDB.
- Completed MongoDB University course, M101P (certificate link: <http://goo.gl/mLL8cM>)

Razorfish, LLC

Software Engineer III

Philadelphia, PA
6/2008 - 10/2012

- Served as a core developer on custom middle-tier and back-end systems, including:
 - The Razorfish Tracking Service, which brokers millions of ad placements per month with the Microsoft Atlas System, implemented with C#, SQL Server, and WCF.
 - The SEOdirect 2009 feeds platform, which pushes tens of thousands of product listings to shopping engines every day, implemented with C#, SQL Server, and BizTalk.
- Supported the Business Intelligence division by developing key edge products, including a data quality checker and an automated file organizer, written with C# and Windows Workflow.

- Improved and maintained Javascript/jQuery web analytics system for Intel's AppUp.com, allowing the client to gain insights into the user behavior of the site.
- Supported search account managers and business analysts by creating add-on systems, including a paid search reporting application, link-checking application, and site-specific product feed crawlers and scrapers.
- Maintained scripted build definitions in Team Foundation Build 2008.
- Created Microsoft Installers (MSIs) with Windows Installer XML (WiX).
- Attended one week off-site training course for Microsoft BizTalk Server.
- Attended two day hands-on Certified Scrum Master course with AgileEvolution.
- Performed detailed code reviews of contributions from both local and offshore developers.
- Screened and interviewed applicants from the Drexel co-op program every six months.
- Actively mentored and trained interns, new employees, and offshore developers.
- Worked on an Agile team with daily scrums and 2-3 week sprints.

EDUCATION

Drexel University, Philadelphia, Pennsylvania

Bachelor of Science, Computer Science, *Cum Laude*, September 2003 - June 2008

TRAINING

Go Training, GopherGuides - September 2019

[Think Like a Relevance Engineer](#), OpenSource Connections - April 2019

[M101P: MongoDB for Developers](#), MongoDB University - August 2013