Bernard Wolff *Seasoned senior engineer with a passion for quality software craftsmanship.*

CONTACT
INFORMATION

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PROFESSIONAL
EXPERIENCE

Insider Intelligence (eMarketer)
Senior Software Engineer

New York, NY
9/2016 - present

- Developed and maintained various distributed, fault-tolerant, event-driven, microservices which communicate over **NServiceBus** on **Azure ServiceBus** and **Amazon SQS**.
    - Split up large monolithic application written in **ASP.NET WebForms** and backed by **Microsoft SQL Server** into small independent microservices written in **ASP.NET WebAPI** and **React.js** backed by **MongoDB**.
- Created a service for uploading chart images and metadata to **S3** for display on the site (React.js**, 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**, **NSubstitute**, and Jest.
- 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