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

|  |  |  |
| --- | --- | --- |
| CONTACT INFORMATION | [hello@bernardwolff.com](mailto:hello@bernardwolff.com) | 267-574-4561 | New York City or Remote |  |
| PROFESSIONAL EXPERIENCE | **Insider Intelligence (eMarketer)**  *Senior Software Engineer*   * 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](https://grandstack.io/) (**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](https://www.emarketer.com/analysts/jeremy-goldman) [pages](https://www.emarketer.com/analysts/mark-dolliver) 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](https://www.emarketer.com/topics/category/facebook) [pages](https://www.emarketer.com/topics/category/tiktok) which aggregate related content onto a single page and help the company’s SEO. * Created a general purpose [database comparison tool](https://github.com/bernardwolff/DatabaseCompare) 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 | New York, NY  9/2016 - present |
|  | **TNTP**  *Software Developer*   * 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](https://github.com/tntp/NSurveyGizmo).   + Created custom [Knockout grid](https://github.com/bernardwolff/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](https://github.com/bernardwolff/HealthPlanPicker). 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>) | Brooklyn, NY  11/2012 - 9/2016 |
|  | **Razorfish, LLC**  *Software Engineer III*   * 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. | Philadelphia, PA  6/2008 - 10/2012 |
| 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](https://badgr.com/public/assertions/yOpxub1XQXqqIZfcMhTFdw), OpenSource Connections - April 2019  [M101P: MongoDB for Developers](https://university.mongodb.com/course_completion/34ab7bb7ce674366b08cfdb0679efb81), MongoDB University - August 2013 |  |
|  |  |  |