

# BRIAN L. FOX

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## SENIOR SOFTWARE ENGINEER

TECHNICAL ARCHITECT ~ PROJECT MANAGER ~ DBA ~ LEAD DEVELOPER

### Project Management

Analytical, highly adaptable professional with extensive experience developing, deploying and evaluating systems aimed at improving quality and efficiency.

### Business Analysis

### Project Planning

### Architectural Design

Skilled in aligning end-user needs with long-term resolutions to complex IT challenges through a consistent track record of success.

### Interface Design

Adaptable to new and emerging technologies with a desire for continual growth in business and technical knowledge. Flexible in handling both business and technical aspects of projects while delivering excellent performance results.

### Database Modeling

### Website Programming

### Website Development

Proven facilitator, mentor, team player and knowledgeable as asset by leaders seeking improved processes, stronger relationships, and improved internal IT department that leverages industry's best practices.

### Technical Writing

### Information Systems

Accomplished communicator skilled in building and strengthening relationships across functions to drive cohesive, strategic operations.

### Communication

### Mentoring

American Corporate Partners (military veterans), Catalyte engineers, HS and college students, various events, seminars, career days, etc.

## TECHNOLOGICAL PROFICIENCIES

**Languages/Tools:** React/Redux, AngularJS, Vue JS/Vuex, TypeScript, Laravel/LiveWire and other PHP frameworks, Javascript, JQuery, JQuery UI, LAMP/LEMP, HTML, CSS/SASS/SCSS, Tailwind CSS and UI, Scala, Play Framework, JSON, AJAX, XML, REST services, SOAP/RESTful APIs, responsive web design (Bootstrap, Play-Bootstrap, Foundation JS), Composer, NPM, Yarn, Grunt, Gulp, Webpack, PSD asset extraction.

**Development/Testing:** Git, BitBucket, Subversion, Heroku, XAMPP, WAMP, BrowserStack, BugHerd, etc.

**Databases:** MySQL, Maria DB, PostgreSQL, Microsoft SQL Server/T-SQL, Oracle, Pentaho (ETL, Data Integration and Analytics Platform), database modeling, stored procedures, etc.

**E-Commerce:** Authorize.net, Stripe, BrainTree, PayPal, FedEx, Avalara Tax API, USA ePay

**Mobile:** HTML5, JQuery Mobile, CSS3, REST services, RESTful APIS, PhoneGap, Telerik, Appery.io

**Others:** AWS, Firebase, Linux, Apache, Nginx, Scrum, Agile, Jira, Assembla

## CAREER PROGRESSION

**SURGE/CATALYTE • SEATTLE, WA**

May 2017-Present

SENIOR INDEPENDENT CONTRACTOR

### USA Hockey – August 2022 - Present

Serving as senior-level developer on project using React/Redux, PostgreSQL and Python

- Performing requirements gathering, planning and other responsibilities with USA Hockey's employees
- Responsible for leading project and mentoring junior developers
- Setting up repositories, deployment and development standards

### Fisher AG – March 2021 - Present

Serving as senior-level developer on project using Laravel, Livewire, Bootstrap, CSS, SASS, Grunt with a PostgreSQL database for a business with planes used to spray farmers' fields.

- Responsible for writing and debugging PHP code using Laravel framework
- Writing custom code and API calls using Livewire
- Designing user interfaces using Bootstrap and CSS

## CAREER PROGRESSION (CONT.)

- Performing database modeling, performance tuning of tables and queries in PostgreSQL database

### **City of Baltimore Health Department – October 2021 - April 2021**

Serving as lead software engineer for project with the City of Baltimore Health Department. Responsibilities include setup of development, testing and staging environments, Git repositories, installation and configuration of RedCap EDC (Research Electronic Data Capture), enhancement of software, leadership and mentoring of junior developers and drafting technical documentation of various aspects of the project. Began rewriting primary application front-end features using React/Redux before launching new project to replace entire RedCap application.

### **Lindmark Media/The Davenport Group – April 2021 – October 2021**

Serving as project manager, lead software engineer and DBA for project developed using Laravel, Vue JS, Bootstrap, Maria DB, PayPal, FedEx and Avalara APIs, Pintura WYSIWYG photo editor and other components. Responsibilities include setup of development, testing and production environments, GitHub repository, requirements gathering, enhancement of ordering and administrative portions of corporate eCommerce solution.

### **City of Baltimore Health Department – August 2020-April 2021**

Serving as lead software engineer for project with the City of Baltimore Health Department. Responsibilities include setup of development, testing and staging environments, Git repositories, installation and configuration of RedCap EDC (Research Electronic Data Capture), enhancement of software, leadership and mentoring of junior developers and drafting technical documentation of various aspects of the project. Began rewriting primary application front-end features using React/Redux before launching new project to replace entire RedCap application.

### **Quick Quack - July 2019-June 2020**

Served as PostgreSQL DBA for car wash chain, modeling database tables and relationships via foreign keys, creating functions to handle various tasks, optimizing queries and assisting developers in writing efficient queries. Also using Pentaho to handle migration of data from legacy server to AWS. Implemented front-end interfaces using React/Redux.

### **Alliance Foundation Trials – January 2019 – July 2019**

Developing corporate portal for application managing and processing research and diagnostic information relating to clinical trials to treat cancer. Developing new interfaces based upon wireframes using Scala with the Play Framework, Bootstrap 4, CSS3, HTML5, JQuery, JQuery UI, PostgreSQL and Heroku.

### **Trafficware – June 2018 – January 2019**

Serving as senior-level developer on project focused on programming all of the keypress, button, touch and embedded browser functionality on a proprietary traffic controller device using Vue JS/Vuex, JQuery, Bootstrap and CSS.

- Responsible for writing code for traditional browsers as well as embedded QT WebBrowser running on proprietary ATC traffic controller device
- Writing, debugging and testing code for device to handle keypress events, button functionality, browser and touch-related events
- Parsing, formatting and debugging results of API calls to and from client's server
- Designing user interfaces to handle interoperability between ATC controller and users

### **Fisher AG – May 2017 – May 2018**

Serving as senior-level developer on project using Laravel, Vue JS, JQuery, Bootstrap, CSS, SASS, Grunt with a PostgreSQL database for a business with planes used to spray farmers' fields.

- Responsible for writing and debugging PHP code using Laravel framework
- Writing custom code and API calls using Vue JS
- Designing user interfaces using Bootstrap and CSS
- Performing database modeling, performance tuning of tables and queries in PostgreSQL database

## CAREER PROGRESSION (CONT.)

### MARKET ACCESS DIRECT • CHERRY HILL, NJ

2016-2017

#### LEAD DEVELOPER | ARCHITECT | MANAGER | DBA

Served as technical architect, project manager, DBA and lead developer for several MVC-based PHP applications built upon the Laravel framework. Performing business analysis, project planning, architectural design, writing of technical and functional specifications, interface design, database modeling and programming of websites as well as writing and consuming REST services to communicate with payment gateways, leads retrieval systems and remote servers for data transmission and automated uploads of files.

- Involved in business planning, requirements gathering and automation of daily tasks for business as well as its clients
- Set up Git and Subversion repositories and local LAMP-based working environments.
- Programming in PHP using Laravel framework, Vue JS, JQuery, JQuery UI and other technologies.
- Writing custom classes for application, modeling database and performance-tuning database queries. Wrote or consumed RESTful APIs for eCommerce, lead management and third-party services.
- Performed front-end tasks such as extraction of assets from PSDs, programming responsive templates and pages using Bootstrap or Foundation JS, SCSS, Node.js and Grunt.

### MD.COM • CHERRY HILL, NJ

2011-2016

#### LEAD DEVELOPER | ARCHITECT | MANAGER | DBA

Serve as technical architect, project manager, DBA and lead developer for MD.com, an MVC-based PHP application built upon the CodeIgniter framework which was eventually rewritten in Laravel. Perform business analysis, project planning, architectural design, writing of technical and functional specifications, interface design, database modeling and programming of website providing information on approximately 600,000 actively practicing physicians throughout the United States. Wrote and consumed REST services from various vendors, developed cross-platform native mobile application using HTML5, JQuery Mobile, REST services, Google geolocation services, PhoneGap, and CSS using Appery.io.

- Interviewed and provided decisions on hiring for team of local and international software developers, set up Git and Subversion repositories and local LAMP-based working environments, wrote documents to establish naming and coding conventions for daily programming tasks.
- Established Wiki and ticketing system for development team, wrote functional and technical specifications for daily tasks, assigned them to developers and designers, served as DBA for application and guided testing of application before migrating completed enhancements to production.
- Involved in programming in PHP, JavaScript, JQuery, JQuery UI, writing custom classes for application and modeling and performance-tuning database queries. Wrote or consumed RESTful APIs for eCommerce, hybrid mobile application and third-party services.
- Performed front-end tasks such as extraction of assets from PSDs, programming responsive templates and pages using Bootstrap or Foundation JS, SCSS, Node.js and Grunt.
- Set up load balancing on server, replication of cloud database and content delivery network (CDN) using Incapsula to prevent denial of service attacks, SQL injections, etc.

### MERGESKILLS.COM • MATAWAN, NJ

2010 – 2011

#### LEAD DEVELOPER

- Developed professional match-making web application using PHP (CodeIgniter framework), MySQL, JQuery, JQuery UI, jqGrid, dynaTree, JavaScript, AJAX, HTML, CSS and XML.
- Determined technologies used and ensured security/encryption of sensitive application modules.
- Wrote custom modules which served as core of application's primary functionality as well as documenter of encoded API called by other developers who were unable to read but can call secure code.
- Provided direction and documentation to other developers on setting up their local work environments, establishment of Subversion repository, enhancement/bug-tracking software, and developer Wiki.
- Wrote scripts to update database, wrote test data and set up cron jobs for application, and developed interfaces with OpenInviter, LinkedIn API, Facebook Connect and other resources.

## CAREER PROGRESSION (CONT.)

### ARTICLE ONE PARTNERS • NEW YORK, NY

2009 – 2010

#### SENIOR PHP DEVELOPER

- Developed and enhanced patent research site utilizing "crowd-sourcing" methodology for validity of patent claims.
- Developed site using PHP, MySQL, JQuery, AJAX, XML (RSS feeds) utilizing MVC design pattern.
- Performed coding, software and database modeling in remote team environment by Subversion and Agile approach.
- Helped document standards, generate Wiki, brainstorm future growth of application and streamlined code by developing custom PHP classes and JavaScript routines as needed.

### FISSION STRATEGY • WASHINGTON, DC

2008 – 2009

#### SENIOR PHP DEVELOPER

- Wrote server-side web application logic, developed back-end components, connected the application with the other web services, and supported the front-end developers by integrating their work with the application.
- Developed and integrated plugins for certain popular frameworks in line with required parameters.
- Helped establish and document team development standards for company including setup of Subversion for software version control, database administration security standards, daily team status calls format, bug/enhancement tracking system for team members and clients, etc.
- **Specific projects included:** (details available on request)
  - AIDSspace (UNAIDS) project (<http://www.aidsspace.org>)
  - Reform Immigration for America (<http://reformimmigrationforamerica.org>)
  - Envision Prince George's County (<http://fissiondev.com/envision>)

### URANGATANG WEB DESIGN • TINTON FALLS, NJ

2004 – 2008

#### PROJECT MANAGER/TECHNICAL LEAD

- Served as project manager and software engineer for a variety of projects for several organizations while providing technical skills in software development and configuration as well as database modeling.
- Wrote proposals and contracts, presentation, negotiation and approval of contracts, software demonstrations, project scheduling, determination of team roles and assignment of team members as well as all steps initiating and leading up to completion of project.
- Planned future phases with customers, developed support or additional agreements for enhancements or fulfillment of new business objectives.
- Developed corporate websites using Dreamweaver, PHP, MySQL, SQL 2000, HTML, CSS, AJAX, JavaScript, etc.
- Designed and maintained websites for various clients using Visual Studio .NET 2003/2005, Dreamweaver, Flash, ActionScript 2.0, Flash remoting, JavaScript, Adobe Acrobat, Sound Forge and other tools.
- Developed websites and GUI applications using C#, VB.NET, ADO.NET, ASP.NET, XML and Web Services using reusable components and techniques designed to partition presentation layer, business logic and data manipulation across multiple tiers. For database-driven sites, designing and coding stored procedures and triggers using Microsoft SQL Server, MySQL or Microsoft Access 2000 database functionality.

## ADDITIONAL WORK HISTORY

### INDEPENDENCE BLUE CROSS/BLUE SHIELD • PHILADELPHIA, PA

1999 – 2003

(VIA PINKERTON COMPUTER CONSULTING)

#### PROJECT MANAGER/TECHNICAL LEAD

### NETPRO SOLUTIONS • NEWARK, DE

1999 – 2001

#### COMPUTER CONSULTANT

### CENDANT MORTGAGE (VIA IBC CONSULTING) • MOUNT LAUREL, NJ

1999 – 2001

#### COMPUTER CONSULTANT

### MORTGAGE MANAGEMENT CORPORATION • TREVOSE, PA

1997 – 1999

**CAREER PROGRESSION (CONT.)**

**PROJECT LEADER/LEAD DEVELOPER**

**CROWN VANTAGE CORPORATION • SOUTHAMPTON, PA 1997 – 1999**  
**COMPUTER CONSULTANT**

**INDEPENDENCE BLUE CROSS/BLUE SHIELD • PHILADELPHIA, PA 1996 – 1997**  
**(C/O METRO INFORMATION SERVICES)**  
**INFORMATION SYSTEMS CONSULTANT**

**THE HIBBERT GROUP • TRENTON, NJ 1995 – 1996**  
**PROGRAMMER/ANALYST**

**WILSON-HEWITT & ASSOCIATES, INC. • PHILADELPHIA, PA 1993 – 1995**  
**COMPUTER CONSULTANT**

**DEB SHOPS, INC. • PHILADELPHIA, PA 1991 – 1993**

**THE EMERGENCY RESPONSE PEOPLE, INC. • CAMDEN, NJ 1989 – 1991**

**FEDERAL NATIONAL MORTGAGE ASSOCIATION • PHILADELPHIA, PA 1987 – 1989**

**SYSTEM ENGINEERING ASSOCIATES CORPORATION • MOUNT LAUREL, NJ 1987 – 1987**

**EDUCATION AND CERTIFICATIONS**

**STOCKTON UNIVERSITY, Pomona, NJ (May, 1987)**  
**BACHELOR OF SCIENCE, INFORMATION AND SYSTEMS SCIENCES**