BRYAN BOETTCHER

SOFTWARE ENGINEER

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Objective

Utilize my extensive experience in sustainable and developer-friendly application design to assist companies with the daunting task of maintaining and upgrading legacy backend systems and ETL processes.

Profile

17+ years experience in client-server architecture, web applications, and unit testing.

Skills

Exceptional Design

Design and optimize software to deliver reliable and performant behavior.

Quality Oriented

Dedicated and driven, I insist upon work I'm proud to put my name on.

Problem Solver

Motivated by efficency, I am skilled at diagnosing and resolving technical issues.

Technical proficencies

C# / .NET	MSpec / BDD	HTML5
ASP.NET	NUnit / TDD	CSS3
VB6 / COM	CI / CD	AngularJS
WiX	Source Control (Git, Mercurial, TFS)	JQuery/Javascript

Experience	**Kansys, Inc.**	2020-present

Kansys, Inc.   2020-present
Software Architect / Lead
Technologies used: C#, .NET Core, WebAPI, MSSQL, CI/CD, DI

- **Developed highly repeatable process to streamline and parallelize development of a Web API**
- Kept unit test code coverage at 85% and integration test coverage at 95%
- Implemented numerous strategies to optimize utility of code for maintenance developers
- Established a continuous integration pipeline with automated tests, and pull requests
- Created asynchronous task-based library for database access with MSSQL

Henry Wurst, Inc. / Mittera Creative Services   2018-2020
Sr. Software Developer
Technologies used: C#, .NET Core, ASP.NET MVC Core, NoSQL, CI/CD, DI

- **Implemented numerous industry-standard practices to modernize a development shop**
- Developed and open-sourced a distributed, queue-driven application architecture for processing and manipulating data
- Wrote RESTful APIs in ASP.NET Core (WebAPI) to feed the data ingestion and processing
- Mentored junior developers, managed an intern, and helped coach other team members with development with design meetings and code reviews
- Created databases using MSSQL for storing and processing captured metrics data from running systems
- Created data stores using RavenDB for object storage and manipulation
- Wrote libraries to simplify access to MSSQL using an abstracted Repository pattern, backed by Dapper
- Diagnosed intermittent failures of existing systems, designed fixes, and deployed to production
- Implemented automated unit testing during the CI process using a spec-flow style syntax built upon NUnit & NSubstitute automocker
- Designed and architected applications from scope meetings through implementation, releasing to production, and subsequent maintenance

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Service Management Group   2016-2018
Sr. Software Developer
Technologies used: C#, .NET 4.5, ASP.NET MVC, NoSQL, Java, Spark, DI

- **Diagnosed and fixed numerous performance issues increasing application response time by 80% in some cases**
- Implemented a search system using ElasticSearch, exposed via a stateful REST API
- Improved existing unit testing patterns, allowing for easier onboarding by newer developers
- Performed in-depth troubleshooting of 3rd-party vendor-supplied system to fix numerous production bugs in their code
- Mentored junior developers with code reviews, coding challenges, feedback sessions, and pair programming
- Refactored legacy code into generics-driven design, allowing for far easier maintenance and modification

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iModules Software   2014-2016
Sr. Software Developer
Technologies used: C#, .NET 4.0, ASP.NET WebForms, DI

- **Heavy focus on application performance, gaining 95% improvements in some areas**
- Introduced sustainable unit testing patterns
- Utilized AJAX via ASMX handlers to provide a interactive user experience on corporate websites
- Introduced repeatable design patterns for maintaining code
- Heavy focus on modernizing legacy code during maintenance
- Implemented several new features in proprietary Android mobile app
- Mentored junior developers

VI Marketing and Branding (via AdvantageTech)   2014-2014 (6 mo contract)
Sr. Software Developer

Technologies used: C#, .NET 4.0, ASP.NET MVC, JavaScript, JQuery, MySQL, DI, MSMQ

- **Brought several processes related to agile development, like kanban, ticketing systems, user stories**
- Standardized hybrid AngularJS/ASP.NET MVC application to ASP.NET MVC
- Standardized hybrid MySQL/MSSQL dual-database structure to MySql
- Led discovery of application requirements and integration with multiple vendors
- Implemented API access for uploading to Vimeo.com
- Implemented API access for document-to-PDF converter

Ticket Solutions, Inc. / VeriShip, Inc.
2011-2013

Software engineer / Team lead

Technologies used: C#, .NET 4.5, ASP.NET MVC, MSSQL, DI, MSpec, MSMQ, ORM (Entity Framework), TPL

- **Increased company revenue 150% while cutting hosting costs by 75%, with no change in sales, by improving efficency of code**
- Brought effective unit testing to development, increasing code coverage of the core application to 90%, trapping hundreds of regression bugs in just 18 months
- Integrated new technologies and development practices with a legacy 1+MLOC codebase
- Implemented standard patterns, allowing multiple developers to begin contributing to codebase with less ramp-up time
- Lead of the "middleware" team, over 5 people
- Designed a system which can report the individual status of several dozen audit points over millions of packages per week with under 100GB/yr database growth

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Softek Solutions, Inc.
2006-2011

Software engineer

Technologies used: C#, .NET 4.0, WPF, VB6, DI, Web Services

- **Designed, architected, and helped manage the transition of core application from VB6 to C#**
- Overhauled build process, bringing a two hour build down to under 10 minutes, requiring no special software
- Created installers in WiX for client and server applications
- Created a multi-threaded, asynchronous, responsive and fluid UI in C# Winforms
- Adapted the WPF design pattern to Winforms, for a developer-friendly blend of familiar surroundings and high testability.

Cities Unlimited
2001-2006

Software engineer / Information Systems manager

Technologies used: PHP, MySql, Linux

- **Created e-Commerce application for customer-driven advertising, utilizing AJAX for a richer client experience**
- Created a web-based advertising platform capable of targeting individual zip codes while handling hundreds of requests per second
- Maintained and improved several in-house applications written in VB4
- Maintained clustered forward-facing web servers and a database back end, running Debian Linux
- Maintained workstations and internal infrastructure, including updates, backups, security, firewall, RAID
- Automated several processes with Excel and VBScript, saving hundreds of hours of manual labor

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