

Derek Gates

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Seeking a challenging workplace with projects destined for the web. I am an eager fast learner and excited to tackle new projects.

User experience is my passion.

- Accomplished C#, HTML + CSS, front-end UI developer with 15 years of experience.
- Diverse knowledge of ASP.net, Javascript, Databases with 9 years of experience.
- Fluent in continuous integration, cloud systems (Azure, AWS, etc) and DevOps with 5 years of experience.
- Well versed with working in teams, working remotely, and working independently using Agile work flows.
- Toastmasters member. Not afraid of large audiences and presentations. I love to talk about and explain systems to other members of a team; capable of talking to all levels from the most technical, to sales team, to marketing, to customers. Mentorship is a strong point for me.

Skills Breakdown

- **Languages:** C#, Java, Javascript
- **UI:** UX Mockups and Design, Charting Tools, Design Guidelines, Accessibility Concerns, Vizio Diagramming, Selenium testing.
- **Web Tech:** Azure, AWS, IoT, REST, WebAPI, Node/Javascript/ESNext, CSS/SASS/LESS, SignalR
- **Build Servers:** TeamCity, CruiseControl, Bamboo, Azure DevOps
- **Source Control:** Git, Mercurial, Team Foundation
- **Networking:** TCPIP, UDP, Peer, Mesh, Microservice, Containers
- **Operating Systems:** MacOS, Windows, Windows Server, Linux
- **Databases:** SQL Server, MySQL
- **Other Notable Items:** Reactive/Functional Programming, Unit testing and IoC, Security Best Practices Advocate

Professional Experience

Patriot Excalibur (PEX) - JACOBS LLC, Ft Walton Beach, FL

September 2017 – Present (Software Developer)

Full-time government contractor; I have been part of the front-end, middle layer, and user experience design as well as a DevOps role to spread knowledge and help other teams.

- Advised and implemented security changes as required for SonarQube, Fortify, retirejs.
- Designed and contributed to a Selenium framework built in house for QA team using Page Object Model theory. Result was a test framework that tested against multiple browsers with little programming knowledge required.
- Converted static Javascript environment into an ES5 targetting environment using webpack, babel and TypeScript while providing support to government accepted browsers such as Internet Explorer 11, Chrome, Safari. Developers were able to write modern code in ES2015/ESNext while supplying customer needs. Optimized build times and code output for Single Page Applications created by developers by focusing on minification, long caching, tree-shaking and code splitting.
- Committee member of "OnePEX", a UX team that advised 3 development teams of UI standards, performed design sprints, performed customer interviews and ratified design standards. Started education of accessible design standards and implemented testing of accessibility and high contrast via design reviews.
- Deployed site metrics for in-house monitoring of development check-ins using Docker and Sitespeed.io.
- Created unit tests for many aspects of software, front and back end. Primarily used Chutzpah/Karma with Jasmine for front-end testing and C# for service layer testing with mocks, stubs and a strong understanding of isolation testing.

- Developed scheduling system in AngularJS. Data was retrieved from IDesign framework with Entity Attribute Value model using MVC/WebAPI with a BreezeJS change tracking system.

ActiGraph, Inc., Pensacola, FL

August 2010 – July 2017

Core part of software team that grew from 3 members to over 10. Helped architect HIPAA and FDA regulated software that integrated with activity monitors. Worked on industry leading research software, ActiLife, that is used by more than 10,000 users for calculating actigraphy outcomes. Developed, documented and created test plans for the CentrePoint web-based platform which integrates activity data for clinical outcomes.

Software Developer

January 2012 – July 2017

- Member of software team that grew revenue from \$0 to over \$1 million in less than 4 years.
- Lead usability designer for ActiLife, ActiSync, and CentrePoint teams. I managed usability concerns and integrated mockup iterations to ensure consistency for ActiGraph brand image.
- Heavily involved in all stages of development lifecycle; requirements, design, implementation, testing, release maintenance, etc.
- Part of interview team and mentored new employees as they transitioned into ActiGraph software team.
- Met regularly with QA team to ensure software was tested correctly. Created test plans for many software products; both automated and human executed tests.
- Member of DevOps team which maintained cloud and local systems, created development environments, enforced security standards and recommended infrastructure changes to the software team.
- Led training webinars for members of software team.
- Designed source control protocols for software team including branching strategies, code organization, best practices.
- Architected and maintained web-based subject activity data acquisition system, CentrePoint, for major pharmaceutical companies used around the globe.
- Architected infrastructure to allow CentrePoint to work in concert with desktop software, ActiSync, to allow initialization and downloading of data from activity trackers worn by subjects without direct intervention. Utilized message based protocol to accomplish this goal.
- Architected API, data charting, data exporting, auditing, user roles and permissions for CentrePoint. All features were maintained and updated with regression testing. Full isolation of development and production systems were designed, and a managed continuous integration system was put into place.
- Utilized ASP.net, SignalR, Bootstrap/Javascript front-end with MySQL (later migrated to SQL Server) database back-end for CentrePoint.
- Designed and maintained a continuous integration system using TeamCity. This build server handled all desktop and web services for the software team of ActiGraph. Work on TeamCity was coupled with knowledge and experience in Azure and AWS for deployment and management of our cloud infrastructure.
- Documented and maintained support materials for ActiLife and for ActiGraph support team.
- Worked with support staff to aid with customer issues with products and maintained customer relations.
- Developed ActiLife API which used named pipes to allow instrumentation for researchers of ActiLife via JSON based command system for batching commands on local computers targeting Java, C#, Perl.
- Spearheaded testing of USB activity monitors using USB-IF testing protocols.
- Integrated wireless technology of ANT+ devices with ActiLife and ActiSync products to allow communication without USB interface. Co-developed visualizer for device orientation of wireless devices.
- Developed and maintained update system for ActiLife. Ensured reliability between all supported Windows versions.
- Architected device communication libraries and standards for activity monitor communication. Later formed device standards committee which oversaw all communication between systems and wearable devices for ActiGraph.
- Developer on desktop C# application, ActiLife, which provided data acquisition and analysis for subject data from the field for actigraphy research. ActiLife is the leading analysis software in the actigraphy field and used by major universities.
- Created and maintained synchronization software for ActiGraph wearable activity monitors, called ActiSync. A tray application that works via USB to acquire data in a safe controlled manner from subject worn devices. I maintained this software across many versions of Windows, created update system via custom API and installers

(using NSIS), and ensured reliability of this software for many hundreds of installed systems.

Software Development Contractor

August 2010 - January 2012

Brought in as a web developer for consumer based activity training website, Virtual Trainer. I developed this website in tandem with the lead graphics designer and quickly advanced into the inner workings of the system to integrate hardware devices with the website.

- Lead usability expert and front end developer on Virtual Trainer, an online health and fitness tool.
- Leveraged ASP.net MVC, jQuery and CSS to revitalize existing analytical site into a consumer friendly portal.
- Developed HTML/CSS template from design mockups, created Wordpress CMS template solution for ActiTrainer and ActiGo product release. Included jQuery image rotator and front page gallery.

Contract Work

2009-2010 (Software Engineer & Web Development)

- Developed DB backend, SOAP API and administration site (ASP.net MVC) for Tellus Point, a GPS based historical touring application designed for mobile phones (iPhone, Android and Windows Mobile). [2009-2010]
- Developed Voice of McDonald's contest site, a global multi-lingual site for the McDonald's corporation. Site is a contest video uploading site, utilizing DotNetNuke and ASP.net. Multiple phases developed for users including social networking aspect and final voting. [2009]
- Developed modular, cross browser JavaScript galleries for two local designers using the jQuery framework. [2009]

Brand Asset Digital, Pensacola, FL

2004-2009 (Software Engineer)

- Software Engineer on peer-to-peer streaming application, LiveCDN.
- Site designer for administration of LiveCDN. Interface designed for hundreds of servers and users with key focus on managing large data sets quickly.
- Back-end web developer for Brand Asset Digital including work on an Analytics package.

Beyond Media

2007-2008 (Subset of Brand Asset Digital, Software Engineer)

- Network developer for the BeCast client and server applications (C#). A peer-to-peer mesh based live streaming platform. Platform delivered up to 80% efficiency.
- Interface designer for windows BeCast client. Included fully skinnable interface, developer API and marketing materials. Developed company pages utilizing ASP.net.

P2P Engineering

2004-2008 (Subset of Brand Asset Digital, Software Engineer)

- Main developer on C# peer-to-peer software for content delivery on major peer-to-peer network, Gnutella/LimeWire. Delivery system had 80% market penetration in existing network of 2+ million users. This system became the advertising platform P2PWords.
- Developed modular advertising system for delivery on peer-to-peer networks. System included an ASP.net templating system, desktop site editor and administrative reporting portal.
- Developed content management system for sales department. This software provided content for the distribution services over peer-to-peer networks using Windows Forms.
- Developed in-house monitoring application to automate administrative tasks such as software restarting and system health. This software oversaw the main network consisting of over 200 systems and was developed in C# and Windows Forms.
- Team leader during Agile development overseeing 2 team members.