

# MICHAEL BARLOW

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## CAREER PROFILE

Senior (over 10 years in Gov't/Health Care sector) Full Stack Web application architect/team leader with a proven track record of providing customer needs especially when it comes to accessibility. Provides team direction and out of the box thinking for unique solutions which have proven to be significant cost savings both in time and money. Proven leader with building high-performance teams to meet new business development goals with keen ability to cultivate and develop intra-organization and external relationships.

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## AREAS OF EXPERTISE

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|------------------------------------|-------------------------------------|----------------------------|
| ▪ Web Accessibility & Architecture | ▪ Training & Coaching               | ▪ HTML, JavaScript, CSS    |
| ▪ REST Based Web Services          | ▪ Pharma & Government IT Systems    | ▪ Node JS, SQL, NoSQL, Git |
| ▪ IBM Rational Tools, GitHub, Jira | ▪ Electronic Health Record Systems: | ▪ Swagger, Jenkins         |
| ▪ Agile Applications/Methodology   | CPRS, VistA, FHIR                   | ▪ Various build systems:   |
| ▪ Customer Service & QA            |                                     | Ant, Maven, Gulp, Grunt    |
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## PROFESSIONAL EXPERIENCE

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**DBITPRO, LANCASTER, PA** Feb 2021 - Present

**TECHNICAL ARCHITECT - WEB ACCESSIBILITY SME**

Technical Architect for the Project Management Office overseeing multiple projects for the Clinical Ancillary Product (CAP) Line for the Department of Veterans Affairs, responsible for ensuring that the development teams for various CAP applications meet requirements and assist with any technical issues as they arise. Providing support for integrating with required Configuration Management tools (e.g., GitHub and Jira).

**DBITPRO, LANCASTER, PA** OCT. 2017 – Feb 2021

**DEVELOPMENT MANAGER - WEB ACCESSIBILITY SME**

Dev Mgr. for Dept. of VA "VistA Security Remediation" project which involves the analysis and remediation of issues identified with the overall design and security of the VistA (Veterans Health Information Systems & Technology Architecture) environment.

Responsible for managing the various individual development and test teams on the project and providing oversight and leadership of individual team projects.

Responsible for architecting and lead developer in the development of a proprietary HIPAA Compliant Audit solution for VistA, utilizing Cloud technology.

Developed a utility for scanning VistA environment for potential vulnerabilities which improved developer productivity by over 80%.

Developed a utility for allowing developers to retrieve information on VistA Remote Procedure Calls and then run any given RPC with information provided in the utility which improved developer productivity by over 60%.

**DBITPRO, LANCASTER, PA** OCT. 2013 – Oct 2017

**TEAM LEADER/LEAD APPLICATION DEVELOPER – WEB ACCESSIBILITY SME**

Web Application Development Team Leader for Dept of VA "Surgery User Interface for Tracking and Efficiency" (aka SUITE) Web application, which provided tracking for all phases of surgical procedures, from initial case generation through case closure and report generation.

Previously, led initiatives for new phase of Chemotherapy Ordering Management System for the Veterans Health Administration through architecting application interface via RESTful web services and development of UI.

**Key Accomplishments:**

- Took client specifications and broke them down to individual tasks and assigned developers to work on the tasks.
- Detailed out individual tasks for consistent design and interface to backend systems through RESTful API.
- Worked with back end developers to generate RESTful API to MUMPS/VistA database back end.
- Worked with VA Rational Tools as well as GitHub to assign and track individual Work Items.
- Leveraged VA's Project Management Accountability System (PMAS) to assist with oversight of deliverables and ensure timing milestones and budget constraints.

- Further developed UI using Ext-S MVC architecture applying RESTful web service calls to a PHP back-end, in addition utilized custom MVC interface with an MS SQL server database and VA's Vista/MUMPS system.
- Utilized Agile ProPath templates for documenting bi-weekly sprints.
- Provided overall project documentation for DB design, data definitions, and system design as a part of Agile business process.

**THORN TECHNOLOGIES, COLUMBIA, MD**

OCT. 2013 – Mar 2017

**SENIOR DEVELOPER – OMA SERVER DEVELOPMENT**

Developed a NodeJS based Server which implemented the Open Mobile Alliance-Device Management (OMA-DM v2.0) protocol which would interface with custom hardware OMA Devices.

**Key Accomplishments:**

Took OMA-DM specifications and generated workflow diagrams, server and test scripts for the NodeJS based server. Worked with hardware client developers to ensure proper communications between client and server.

**CAPITALONE 360, WILMINGTON, DE**

MAR. 2013 – Sept. 2013

**LEAD ACCESSIBILITY DEVELOPER & SME – TEAM ALLY**

Charged with ensuring code developed for the CapitalOne 360 transite application met WCAG 2.0 (Web Content Accessibility Guidelines) and ADA compliance.

**Key Accomplishments:**

- Created training programs and materials for Java developers, QA personnel, project managers, business systems analysts, user experience, and customer marketing teams.
- Performed as "Goto" contact for multiple teams with peer reviews on web application accessibility.
- Developed Accessible Code Standards for CapitalOne 360 online banking suite of applications.

**DBITPRO, ELKTON, MD**

NOV. 2011 – Sept. 2012

**CHIEF ARCHITECT/DEVELOPER – CHEMOTHERAPY ORDERING MANAGEMENT SYSTEM**

Provided management over development of COMS Application for the Veterans Health Administration using Service Orientated Architecture methodology to improve encapsulation of individual modules through architecting application interface via RESTful web services and UI creation.

**Key Accomplishments:**

- Developed UI using Ext-JS MVC architecture applying RESTful web service calls to a PHP back-end, in addition utilized MVC architecture interface with an MS SQL server database as well as VA's Vista and MUMP system.

**US ARMY-ABERDEEN PROVING GROUNDS, ABERDEEN, MD**

APR. 2011 – Nov. 2011

**WEB APPLICATION DEVELOPER/RAPID RESPONSE TEAM LEAD**

Performed architecting for web applications and continued deliverables as Rapid Response (R2) team member post direct hiring from MTI.

**MANTECH INTERNATIONAL CORP, RED BANK, NJ**

DEC. 2006 – Apr. 2011

**IT DEVELOPMENT TEAM LEADER – IDE TEAM/RAPID RESPONSE PROJECT OFFICE**

Charged with providing federal customers, contractors, and procurement specialists the tools to manage \$20B+ in service contracts through the web-based R2 Electronic Contract Business System (R2ECBS) portal with oversight of design, testing, and management of automation architectures as assigned Information Assurance Officer for the R2 Project Office.

**Key Accomplishments:**

- Engaged in architecting and development of various web applications in SharePoint for Logistics and Readiness Center of CECOM.
- Developed R2ECBS documentation to attain certification and accreditation for US Army which included best practices, disaster recovery plan, database schemas, continuity of operations plans, system design methodology guidelines, technical and administration guides, and overall system environmental diagrams.
- Collaborated with analysis, formulation, planning, design, development, and execution IT, IA, and Base Relocation and Closure strategies.
- Trained and coached developers and quality assurance staff to fill gaps in knowledge with section 508 compliance guidelines and protocols.