

# Matthew Brown

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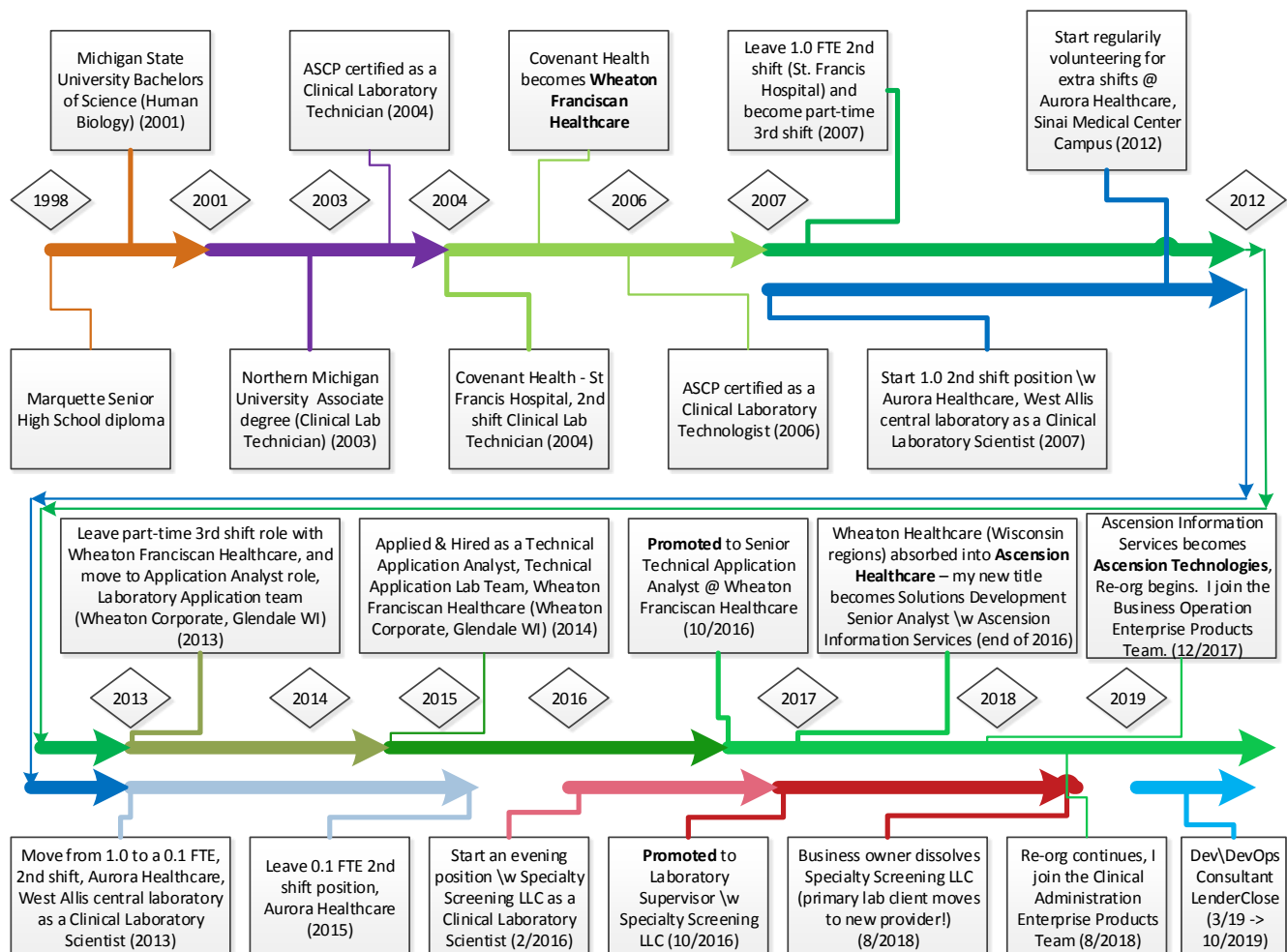
<https://github.com/matthew-brown-mlsci/Resume>

*Senior solutions developer pursuing development + DevOps opportunities  
around mission critical technology solutions.*

## Qualifications

- Diverse experience supporting a variety of clinical information systems.
- Extensive background working in clinical laboratory operations.
- Passionate about achieving a challenging position that allows for meaningful contributions.
- Enthusiastic and efficient when learning new technologies.
- Cognizant and mindful of product lifecycle and support constraints when evaluating or implementing projects, solutions and work-arounds.
- Resourceful and creative when solving difficult technical problems.
- At ease working in projects combining on and off-site resources
- Responsible when ensuring project timelines are met, effectively communicating goals and needs to appropriate participants.
- Confident responding to complex incidents in a timely manner when placed in an on-call rotation.
- Comfortable telecommuting, currently operating on a national team from my home office for Ascension Technologies.

## Education/Work Experience Timeline



## Professional Experience

- Coded custom solutions for unique problems, including creating multi-user, database driven applications, APIs, and web front-ends.
- Worked on a development team, in an Agile framework \w source control tools to produce and deploy production quality code for a microservice, cloud based architecture.
- Several years managing various clinical application servers running AIX, HP-UX, Linux, Windows Server 2003/2008/2012. Experience installing, configuring and supporting Citrix applications.
- Team project lead on several complex projects involving clinical application upgrades/installs/sunsets from McKesson, Sunquest, Mediware, Data innovations, Nuance, Allscripts, etc.
- Skilled at evaluating & automating IT processes using appropriate technology
- Regularly interfaced with vendors, network engineers, system engineers, application analysts, operations management and end-users to facilitate timely resolutions to issues/project work.
- Facilitated friendly interchanges between (at-times) hostile resources to expedite project/incident related work.
- Worked off-hours/on-demand as required to maintain clinical application integrity.
- Successfully integrated on a national technical team providing 24/7, 3<sup>rd</sup> tier information systems support.

## Employment History

**Ascension Technologies** (previously known as Wheaton Franciscan Healthcare) – *Glendale WI*

*Solutions Development Senior Analyst*

(Tech-Apps Lab Team)  
(Business Operations Enterprise Products Team)  
(Clinical Administration Enterprise Products Team)

- 12/17/2016 to Present

*Senior Technical Application Analyst*

(Tech-Apps Lab Team)

- 10/1/2016 to 12/17/2016

- Developed unique solutions for healthcare environment challenges, spanning the entire stack (Python/Flask API powered windows services that interact with relational db backends + web (webpack/React) front-ends)
- Currently working with an entirely virtual team, supporting numerous healthcare applications (custom and purchased) across the United States (Access eForms, FlightVector, Formfast, etc).
- Contributor to Ascension Technologies automation sub-team, utilizing Selenium/Java/Python to identify/automate enterprise processes.
- Jumped into new technical opportunities from the WFHC/Ascension merger, including some IBM Mainframe work \w SAS/JCL, as well as Agile / Jira training.
- Continued supporting a variety of legacy clinical systems including: McKesson (Allscripts) Lab, Horizon PHS, Horizon HSM, Allscripts Sunrise, 3M CRS, Sunquest Lab / Antrim / CoPath / PowerPath, Nuance Clintegrity, Mediware HCLL, UL Systoc, Abbott Precision Web, McKesson Practice Plus, etc. Clinical application hosted on a mix of Unix(AIX, HP-UX, RedHat Linux, etc)/Windows Server hosts.
- Helped sunset several legacy applications (Sunquest Lab, Sunquest CoPath, Nuance Clintegrity, Horizon PHS, Horizon MSM, McKesson PPM).
- Team lead McKesson Lab v16 upgrade project 2017.
  - Created a variety of scripts/programs to support the new environment that included features such as automated MLab node management via web interface, automatic tblrepl flips on-login, with an Oracle back-end schema to keep track of nodes and user logs. (Using Powershell, Python and HTML/CSS/Javascript/JQuery/Bootstrap/etc)
  - Created interface error capture system – interface errors are piped to a sqlite database and accessed by a (searchable) web front-end. Printing subsystem allows errors to be printed or not-printed per SQL'esque parameters. (Using Python, HTML/Javascript, ASP)
  - Performed all Citrix client installs + configuration
  - Maintained several custom scripts on the Linux application servers (Shell scripting, Perl, Python)
  - Worked with Ascension system engineers + McKesson implementation engineers to design / test / go-live a fully HA-DR compliant McKesson Lab implementation, including a mostly virtual environment (VMWare) with the ability to VMotion live VM's between primary datacenters, plus a VPLEX implementation that has eliminated SAN-related downtimes post go-live thus far.

### **Technical Application Analyst**

(Tech-Apps Lab Team)

- 7/5/2014 to 10/1/2016

- Worked with vendors, system engineers, network engineers, application analysts and users to setup and maintain clinical software environments.
- Created custom scripting/programs to facilitate solving the unique needs and problems presented by an information systems environment filled with disparate clinical applications that must interact effectively.
- Supported a variety of clinical systems including: McKesson Lab, Horizon PHS, Allscripts Sunrise, 3M CRS, Sunquest Lab / Antrim / CoPath / PowerPath, Nuance Clintegrity, Mediware HCLL, UL Systoc, Abbott Precision Web, McKesson Plus, etc.
- Team lead implementing 3M CRS to replace Nuance Clintegrity
- Regularly performed off-hours maintenance rotations & on-call schedules
- Utilized available documentation and resources to create creative solutions to technical problems.

### **Application Analyst**

(Lab Application Team)

- 5/5/2013 to 7/5/2014

- Supported McKesson Lab (aka Horizon Lab aka Allscripts Lab), Sunquest PowerPath(Tamtron), Mediware HCLL, Abbott Precision Web, Data Innovation Instrument Manager, Sunquest Antrim, etc.
- Participated in regular build cycle (new tests, test changes, method changes, etc)
- Participated in several concurrent projects, worked with operational and IS staff to complete objectives within established timelines.
- Integrated in 24/7 on-call schedule within 4 months of hire.
- Utilized available documentation and resources to establish creative solutions to technical problems.

### **LenderClose**

*Software Developer (consultant)*

(100% Remote)

- 3/2019 to 10/2019

- Worked on a team of software developers, Agile framework, to enhance front end and back end functionality.
- Took the lead on DevOps role as an architect for AWS deployment of their new microservice-based application (AWS ECS / EC2 / RDS / Route53 / etc), implemented as infrastructure as code \w Terraform + Ansible.
- Added new front-end functionality to various technical debt items using html/css/javascript/Riot/React
- Added new API endpoints to existing Python-based back-end (Flask + Postgres)

### **Specialty Screening LLC**

*Lab supervisor*

(Wauwatosa, WI)

- 10/2016 to 8/2018

*Clinical Lab Scientist*

(Wauwatosa, WI)

- 2/2016 to 10/2016

- Provided all aspects of on-site laboratory bench work, IT support and CLIA compliance.
- Supervised last CLIA on-site review (0 deficiencies cited).
- Wrote custom software to facilitate patient result management and reporting (AutoIT + JetDB).
- Ensured all technical aspects of the business were maintained using a minimum of budgetary resources.

### **Aurora Health Care**

*Medical Technologist*

(West Allis Mem. Hosp.)  
(Sinai Med Center)

- 5/29/2007 to 5/3/2015

- 7/13/2012 to 5/3/2015

- Performed clinical lab testing in accordance with established procedure, regularly rotating through several laboratory departments including:
  - Hematology (automated, differentials, special, etc)
  - Coagulation
  - Chemistry (special, immune, automated, etc)
  - Bone marrow (spec processing, staining, 500 cell differentials, etc)
  - Blood bank
  - Batch Elisa Assay
- Trained 8 different staff members on various benches, both on 2<sup>nd</sup> shift ACL West Allis, 1<sup>st</sup> shift ACL West Allis, and 1<sup>st</sup> shift ACL Sinai.
- Participated in off-the-bench initiatives including biannual LIS calculation validations.
- Volunteered to fill in at Aurora Sinai hospital lab during critical staffing shortage (from June 2012 to May 2015).
- Participated in Sunquest Lab technical training team. Wrote a user training guide for use with new employees and as a reference for current employees for the Sunquest Lab LIS. Utilized at several Aurora Sites.
- Coded a solution to transfer Quantiferon results via USB flash drive from the DSX analyzer to Commercial Lab LIS system. Validated system, nurtured process through test code build changes, created training materials, updated as necessary.

## **Wheaton Franciscan Healthcare**

*Clinical Laboratory Scientist*

(St. Francis Hospital)

- 3/8/2004 to 5/5/2013

- Full time 2<sup>nd</sup> shift 3/8/2004 to 5/28/2007, 3<sup>rd</sup> shift Pool to 5/5/2013
- Performed clinical lab testing in accordance with established procedure, regularly rotating through several laboratory departments including:
  - Hematology (automated, differentials, special, etc)
  - Coagulation
  - Chemistry (special, immune, automated, etc)
  - Blood bank
  - Microbiology set-ups
- Key operator Beckman-Coulter hematology analyzers

## **Education**

**Northern Michigan University**

(Marquette, MI – 12/2003)

Associate degree (*Clinical Lab Tech.*)

**Michigan State University**

(East Lansing, MI 5/2001)

Bachelors of Science (*Human Biology*)

ASCP certified as a **Clinical Laboratory Scientist** (August 2006) (\w CM certification, expires: 8/2021)

## **Technology experience**

To help prospective employers better understand my technical experience, I've compiled lists of the various technologies I have direct experience utilizing. Please see the Github links below for more information!

[Operating Systems](#)

[Development Tools](#)

[Databases](#)

[Network technologies](#)

[Clinical Applications](#)

[Enterprise/Misc applications](#)

## **Technical problem solving examples / Soft skills**

[List of technical examples](#)

[Soft skills](#)

## **References**

[List of references](#)