

Alexander Williams

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OBJECTIVE To provide great value while I continue to develop professionally.

EDUCATION Texas Tech University Lubbock, TX
Ph.D. in Mathematics July 2006 - August 2010
M.S. in Mathematics June 2005 - June 2006
B.S. in Mathematics (minor in Physics) Fall 2002 - May 2005

EXPERIENCE StarCare Specialty Health System Lubbock, TX
Programmer V April 2016 - Present

- Developed an open-source web service used by various agencies:
<https://github.com/txace/LTSS-NIEM>
- Responsible for migrating the organization's legacy system to their new system.

Intrepidus Labs (DBA) Lubbock, TX
Principal investigator (to be) October 2015 - February 2016

- Planned to lead an AI project to create a series general purposes algorithms that would learn how to move semi-arbitrary robotic arms given a visual goal.

The Yoga Stand Lubbock, TX
Yoga Instructor May 2015 - Nov. 2015

- Received several hugs and compliments after the classes I led.

Fund Accounting Solution Technologies, Inc. Lubbock, TX
Senior/Lead Software Developer Feb. 2012 - June 2015

- Was actively involved in the design and implementation of several features, such as groups, contacts, statuses, actions, user template driven reporting, screen layout conventions, integration with 3rd parties, cash receipting, and a municipal court module.
- Crafted an extensible pipeline from the back-end to the UI that enabled developers to focus on business needs rather than technical concerns.
- Implemented a simple and effective build and deployment automation strategy that prevented code and schema freeze, improved testability, and enabled reliable live deployment to production.
- Worked directly with my fellow programmers to provide mentorship and minimize pain points on the features and bugs they were working on.
- Worked directly with the business owners to make sure that what would deliver customers the most value with minimal costs was implemented.

Texas Water Labs Lubbock, TX
Sales Representative/Trainer Feb. 2011 - Dec. 2011

- Consistently improved closing average over the first six months.
- Successfully recruited, interviewed, hired, and trained 6+ sales representatives.
- Personally supervised and gave feedback to the sales representatives.

Texas Tech University
Graduate Part-time Instructor

Lubbock, TX
Fall 2005 - Fall 2010

- Taught Trigonometry, College Algebra, Business Calculus, Finite Mathematics, Statistical Methods, Calculus III, Calculus II, and Precalculus.
- Assisted teaching for Business Statistics, Calculus II, and Advanced Calculus.
- Assisted computer administration with software and hardware updates.

PROFICIENCIES

- Javascript libraries including jQuery and D3. Proficient with MVC and SAM patterns.
- Effective use of LinqPad and Visual Studio for C# development.
- Moderate experience with Django and Anaconda.
- Can manipulate data rather well via ORMs, SQL, or hand-crafted tools.

FUN FACTS

- Investigating whether $L = ALOGTIME$ and learning Farsi in my spare time.
- Invented a significantly faster Quine-Mcklusky algorithm.
- Implemented an online board game: <http://www.yucata.de/en/GameInfo/SevenSteps>.
- Screencast of an algorithm I invented: https://www.youtube.com/watch?v=O_fom70lck4.