# Alexander Clines

## Skills and Proficiencies

| Programming Languages | Frameworks/Platforms | Databases | Operating Systems |
| --- | --- | --- | --- |
| Strong in C, C++, Java | Android, CUDA, | Moderate in MySQL and JDBC | Windows, Debian/Ubuntu, |
| Moderate in Python, C#, JavaScript | MPI, Node.JS, Polymer | Familiar with NoSQL | CentOS |

## Education

**Texas Tech University**, Lubbock, TX                                             Anticipated Graduation: May 2019
*Masters of Science - Mathematics*
*Bachelors of Science - Computer Science - Major GPA: 3.59*
*Bachelors of Science - Mathematics - Major GPA: 3.61*

## Employment

**USAA** Plano, TX
*Software Development & Integration Intern*                                                May 2016 - August 2016
Worked as a mobile developer intern
- Designed a mobile application that fits the business needs
- Developed native mobile apps for both Android & iOS in addition to a cross-platform web app using Polymer & JavaScript

*Software Development & Integration Intern*                                                May 2015 - August 2015
Worked as a developer on the back-end services of a mobile application
- Building web service calls for the mobile application using a RESTful architecture
- Implementing business and service logic using J2EE in addition to the API for the RESTful architecture
- Connecting to and manipulating DB2 databases using Java Database Connectivity Technology and SQL to handle data

**Texas Tech University** Lubbock, TX                                                     August 2014 - May 2015
*Mathematics Tutor*
Assisted students in acquiring better understanding of basic and complex concepts in various undergraduate mathematics courses

## Research / Projects

**Texas Tech University Mathematics Department**                                           January 2016 - Now
- Assisting an instructor on a multi-agent simulation engine for GPU clusters
- Finding efficient ways to handle data transferring across multiple NVIDIA GPUs per node and multiple nodes on a cluster
- Working with advanced C++ such as template metaprogramming in addition to CUDA
- Using libraries such as OpenMPI, Thrust, Boost

**Texas Tech University Computer Science Department**                                      January 2014 - May 2014
- Assisted a professor in his research area of natural language processing
- Opinion Classifier Research (Researched various opinion classification algorithms, determined which algorithms would be best suited for the project based on efficiency and implementation, then presented my findings to the group)
- Opinion Classifier Application (Wrote python scripts to apply the algorithms to data sets and collect results)

**Caddy Delivery**
- Android application that allows users to order food from nearby restaurants and have it delivered to their doorstep
- User can view the menus, select and customize the items they want, set the delivery destination and pay

## Activities / Campus Involvement

**Software Development Club,** Vice-President, Group Leader, Android Development Trainer - Spring 2014 to present
- Student run organization whose goal is to assist members with unique projects that can prepare them for a professional atmosphere while gaining experience in a creative environment.
- Co-leader of weekly meetings geared to help members learn concepts and implementations of algorithms and data structures
- Taught Android development and source control with Git to members
- Leader of Android development teams

**International Collegiate Programming Contest (ICPC),** Member - Spring 2014 to Spring 2015
- Designed and implemented solutions to solve problems using C++ or Java in a timed, competition format
- Collaborate as a team to learn advanced algorithms and improve problem solving skills

**Tech Thrive,** Treasurer - Fall 2015 - Present
- Created by students to empower women in technology to reach their full potential by establishing a sense of community, creating awareness in degree and career opportunities, and cultivating both male and female advocates to serve as a support network

## Conferences Attended

**NVIDIA's GPU Technology Conference 2016,** April 4-7, 2016
- Trip on behalf of the Texas Tech Mathematics department in order to learn about the latest in GPU technologies, especially those that are applicable to the GPU cluster I help run

**Xamarin Dev Day,** June 6, 2016
- One-day event where I learned about the latest in developing native, cross-platform mobile applications using Xamarin's tools