

# Andy Lu

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## EDUCATION

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**Southern Methodist University** Dallas, TX  
*Dedman College of Humanities and Sciences,* May 2018  
*B.S. in Applied Mathematics, Minors in Computer Science, Natural Sciences* Cumulative GPA: 3.81 / 4.0

**Relevant Coursework:** Data Structures, Intro to Algorithms, Intro to Parallel Computing, High Perf. Sci. Computing, Numerical Linear Algebra, Intro to Discrete Math, Numerical Analysis, Real Analysis, Dynamical Systems, Functional Analysis, Abstract Algebra, Complex Analysis

**Projects:** Static Code Analyzer, OpenMP and MPI Parallelized Monte Carlo Integrator, Multigrid Solver

**Computer Skills:** C++, Python, MATLAB, CLI, Bash, Unix/Linux, Git, HTML, CSS, Java, PostgreSQL

**Honors and Awards:** *Phi Beta Kappa, 2018 McCaw Merit Award, Computational Science Honors in Mathematics, University Honors Program, 2014 American Black Belt Scholarship Recipient*

**Central High School** Keller, TX

## WORK EXPERIENCE

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**Office of Information Technology- Client Architecture Student Worker** June 2017 – Present

- Cut ticket response time from an average of 4 days to 15 hours
- Provided good customer service by seeing the customer's issue through from start to finish
- Assisted in meeting team project deadlines or reevaluating deadlines to work more efficiently

**Central University Libraries- Student Clerk** January 2015 - May 2015

- Improved time management skills by working on several highly-detailed projects at once
- Worked within various departments as requested by supervisor; quickly learned procedures as needed

**Lone Star Black Belt Academy- Assistant Instructor and Program Director** June 2013 - August 2014

- Instructed students of all ages in Taekwondo and Brazilian Jiu-Jitsu in 10 to 30 student classes
- Collaborated with fellow head instructors and student instructors to flawlessly teach classes
- Communicated with managers of other businesses to spread public awareness of the school
- Contacted potential members to arrange free trial classes and tours

## LEADERSHIP & COMMUNITY SERVICE

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**Mustang Heroes- CollegeBound** Dallas, TX  
*Member, then Math Curriculum Chair* August 2015 – May 2016; August 2016 – Present

- Collaborated with fellow tutors to teach small groups of high schoolers SAT prep lessons
- Oversaw one senior's application process to his top choice school

**Central High School Mu Alpha Theta Mathematics Honor Society** Keller, TX  
*Vice President* August 2013 – May 2014

- Coordinated with fellow tutor availabilities and oversaw tutorial sessions for students of all grades in need of assistance with their math course work
- Streamlined practice for various math competitions for the entire society to compete in as a team

**Central High School Spanish Honor Society** Keller, TX  
*Vice President, then President* August 2012 - May 2013; August 2013 - May 2014

- Increased attendance to 1-on-1 English classes for adults and teens of the community from 3 to 15 people
- Enhanced understanding of Spanish culture for the children of the elementary schools in the district
- Supervised and assisted with homework help sessions for Central High students

**Lone Star Black Belt Academy Leadership Program** Keller, TX  
*Member* March 2012 - August 2014

- Participated in lectures to develop skills to instruct students of all ages and abilities
- Motivated students in the kids' classes to perform at the best of their abilities on and off the mats
- Engaged with students to expand their understanding of techniques and concepts

## ADDITIONAL SKILLS

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**Language:** Conversational in Cantonese

**Interests:** Taekwondo Black Belt (12/17/08-2/7/14); Jiu-Jitsu Blue Belt (6/1/09-8/15/14); Rock Climbing; Playing the Ukulele; Calligraphy; Wheel Thrown Pottery