

RACHEL LANDERS

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EDUCATION

Texas A&M University-Commerce
Bachelor of Arts Mathematics, Spanish

Commerce, TX
August 2008 - December 2012

Texas A&M University-Commerce
Master of Science Mathematics

Commerce, Texas
August 2013 - May 2015

EXPERIENCE

USAA
Software Developer & Integrator I
Southwest Research Institute
Research Analyst

San Antonio, TX
July 2017 - Present
San Antonio, TX
May 2015 - July 2017

- Built data processing pipelines and web applications for science operations and science data analysis for NASA missions including: Juno, Cassini
- Designed, implemented, maintained, & analyzed Juno spacecraft downlink data volume algorithm model spreadsheets; verified spreadsheet-calculated data against data generated by the web application
- Created data visualizations in JFreeChart and Microsoft Excel for science data analysis and science operation planning
- Collaborated with scientists & team members on web application requirements and design
- Wrote and updated software documentation
- Demonstrated beneficial coding practices, programming in Java 8, and new technologies at monthly training meetings
- Enhanced user experience with modern user interface libraries
- Interpreted science data to design relational databases
- Wrote unit tests using JUnit
- Coordinated with team members on shared assignments
- Updated section management Excel spreadsheets tracking server, staff planning, & staff skills statistics

Texas A&M University-Commerce
Graduate Teaching Assistant

Commerce, TX
August 2013 - May 2015

- Instructed calculus I labs & supplementally train students on programming in Wolfram Mathematica
- Constructed visual aids in Wolfram Mathematica to demonstrate calculus concepts
- Wrote calculus I/III solution keys & programming guides in Wolfram Mathematica
- Maintained records of 200+ students' grades, attendance, & behavior using Microsoft Excel
- Coordinated development of lesson plans & classroom management techniques with fellow instructors

SKILLS

Programming Languages: R, Python, MatLab, Wolfram Mathematica, IDL, Java, JavaScript
Software: Nifi, Control-M, GitLab, Eclipse, Sublime