

# RACHEL LANDERS

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## EXPERIENCE

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### **USAA**

*Software Developer & Integrator I*, Data Insights & Automation

San Antonio, TX

May 2019 - Present

- Analyzed Netezza system metadata to create ad-hoc visualizations which assisted in the diagnosis of enterprise-wide long-running Netezza queries
- Write Hive queries and build Hive views to support the implementation & maintenance of Tableau visualizations of system/application health data for business and IT audiences
- Built visualization of Pantheon tool usage by persona to allow architects, product managers, and product owners to assess Pantheon marketing effectiveness and planning
- Built health scorecard providing business users with key performance metrics indicating overall current and historical health of various Pantheon applications such as BO, SAS, and Tableau
- Built dashboard of SAS file usage for system administrators to evaluate use of SAS server storage
- Manually validate data moved from source to long-term storage layer of monitoring platform is accurate and formatted consistently
- Wrote Python script to validate data persisted within HDFS is consistent with source data
- Continuously learn and promote visualization and coding best practices in team design/code reviews
- Lead effort to engineer Nifi data pipeline moving data from source and persisting in HDFS
- Wrote Python script to monitor HTTP response times using Docker/Kubernetes to support business SLAs
- Enforce and follow data development lifecycle compliance standards
- Team representative for PULSE and PHUN committee

*Software Developer & Integrator II*, Data Insights & Automation

July 2017 - May 2019

- Automated ODBC connections in R using ServiceNow workflows
- Built ServiceNow CI/CD GitLab pipeline
- Developed REST API for ServiceNow application

### **Southwest Research Institute**

*Research Analyst*, Space Data Systems

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
- Detected bugs in code by evaluating inconsistencies in manually calculated spreadsheet data and data generated by 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
- Updated section management Excel spreadsheets tracking server, staff planning, & staff skills statistics
- Section representative for Division Management Advisory Committee Chair

**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 complex 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

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Languages:	R, Python, SAS, MatLab, SQL, Java, Wolfram Mathematica, IDL, JavaScript, CSS, HTML, JSON, XML, LaTeX
Data Visualization Tools:	Tableau, Plotly, ggplot2, JFreeChart, Microsoft Excel
Data Storage Technologies:	Hive, HDFS, Oracle, MySQL
Software:	Nifi, Control-M, GitLab, Eclipse, Sublime

EDUCATION

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<b>University of Texas at San Antonio</b> Master of Science Data Analytics	San Antonio, TX August 2019 - Present
<b>Texas A&amp;M University-Commerce</b> Master of Science Mathematics	Commerce, Texas August 2013 - May 2015
<b>Texas A&amp;M University-Commerce</b> Bachelor of Arts Mathematics, Spanish <i>Cum Laude</i>	Commerce, TX August 2008 - December 2012

RESEARCH

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- Co-author: Bayless AJ, Fryer CL, et al. **The SuperNovae Analysis APplication (SNAP): A new analysis tool for understanding the physics of supernovae.** *American Astronomical Society*. 2017; 846:101
- Author: **A new combinatorial interpretation of multinomial coefficients.** Master's thesis, TAMU-Commerce, 2015
- Poster presentation: **A new combinatorial interpretation of multinomial coefficients.** *Texas A&M University Annual Pathways Student Research Symposium*. 2013. Kingsville, TX.
- Author: **Predictors of success in the admissions standards of Texas A&M University-Commerce Honors College.** Honors thesis, TAMU-Commerce, 2012

ORGANIZATIONS

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- Texas A&M University-Commerce Mathematics Advisory Council 2018-2020

CERTIFICATIONS

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- Tableau Desktop Specialist