

Alexander Rodriguez

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EDUCATION

Texas State University

Bachelor of Science in Data Science

Relevant Coursework: Machine Learning Algorithms, Advanced Statistics, Data Visualization, Big Data Analytics, Cloud Computing, Artificial Intelligence

GPA: 3.85/4.0

San Marcos, TX

Aug 2025 – May 2029

TECHNICAL SKILLS

Languages and Technologies: Python, R, Java, JavaScript, SQL, Scala, TensorFlow, Keras

Tools and Frameworks: Jupyter Notebook, Apache Spark, Hadoop, Docker, Kubernetes, Git, AWS

PROJECTS

SmartCity Analytics - Winner at CitySolve Hackathon | *Python, TensorFlow, Keras, Docker*

- Developed a machine learning model predicting urban traffic patterns with 85% accuracy using deep learning techniques
- Implemented real-time data processing pipeline integrating IoT sensor data from multiple city infrastructure points
- Created interactive geospatial visualization dashboard using Plotly and Dash for municipal planning

HealthAI Diagnostic Assistant | *Python, Scikit-learn, React, Flask*

- Designed an AI-powered diagnostic recommendation system achieving 92% prediction accuracy for early disease detection
- Developed a robust machine learning ensemble model combining multiple classifiers for improved diagnostic precision
- Implemented secure patient data anonymization protocols compliant with HIPAA regulations

EcoTrack Climate Platform | *R, Shiny, PostgreSQL*

- Built a comprehensive climate impact tracking application for corporate sustainability reporting
- Engineered advanced carbon footprint calculation algorithms with dynamic data visualization
- Created predictive models for long-term environmental impact assessments using time-series analysis

RESEARCH EXPERIENCE

Research Assistant - Computational Biology Lab

Texas State University

Jan 2026 – May 2026

San Marcos, TX

- Conducted genomic data analysis using advanced bioinformatics techniques and machine learning algorithms
- Developed novel computational methods for protein structure prediction with 78% accuracy
- Collaborated with interdisciplinary research team to publish findings in peer-reviewed computational biology journal

WORK EXPERIENCE

Data Science Intern

Dell Technologies

Jun 2027 – Aug 2027

Round Rock, TX

- Implemented machine learning models for predictive hardware performance analytics
- Developed automated data preprocessing scripts improving data quality by 35%
- Conducted comprehensive performance benchmarking of emerging AI infrastructure solutions

Software Development Intern

National Instruments

May 2026 – Aug 2026

Austin, TX

- Designed and implemented microservice architectures using containerization technologies
- Created comprehensive unit and integration test suites for critical software components
- Optimized existing codebase, reducing computational complexity by 25%