

Elijah Nunez

☎ (417) 555-9038 ✉ elijah.nunez@example.com 💻 linkedin.com/example/elijahnunez 📍 Springfield, MO 65806

SUMMARY

Computer Science student building practical evidence across data science, **machine learning**, software programming, and computer vision. Academic work applies Python, SAS, statistics, Tableau, NLP, text mining, **time series analysis**, and data visualization to structured and unstructured datasets. Capstone research included a 60,000 record dataset, reproducible notebooks, model comparison, forecasting, evaluation, and clear presentation of limitations. Software coursework added Java, JavaScript, C++, Spring Boot, microservices, Docker, Jenkins, and REST API development within a documented **software development life cycle**. Research experience strengthened reproducibility, technical writing, verbal communication, and careful interpretation of results. Current studies support entry level technical work where curiosity, **self directed learning**, and practical experimentation can contribute to thoughtful analysis and dependable software delivery.

EDUCATION

Bachelor's Degree in Computer Science
Missouri State University GPA: 4.0
Coursework: Statistics, machine learning, computer vision, software development, data visualization

2027
Springfield, MO

TECHNICAL SKILLS

- **Programming Languages:** Python, Java, JavaScript, C++
- **Statistical Analysis:** Statistics, SAS, descriptive analysis
- **Machine Learning:** Model evaluation, supervised learning, feature preparation
- **Data Visualization:** Tableau, trend visualization, model output views
- **Natural Language Processing:** NLP, text mining, document classification
- **Time Series Analysis:** Forecasting, temporal subsets, held out periods
- **Computer Vision:** Image classification, training splits, validation splits
- **Java Development:** Core Java, Spring Boot, REST API
- **Service Architecture:** Microservices, interfaces, request response design
- **DevOps Tools:** Docker, Jenkins, build automation
- **Software Development:** Software development life cycle, testing, source control
- **Data Engineering:** Data preprocessing, reproducible notebooks, analytical datasets

SKILLS

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|--------------------|-------------------|------------------------|---------------------------|
| • Statistics | • Data analytics | • Tableau | • JavaScript |
| • Python | • Computer vision | • Time series analysis | • C++ |
| • Machine learning | • NLP | • Data visualization | • Technical communication |
| • Data science | • Text mining | • Java | |

EXPERIENCE

Data Science and Machine Learning Capstone Student, Capstone Project
Academic Research

January 2026 - September 2026
Springfield, MO

Completed supervised capstone research using a mixed dataset, combining statistical analysis, machine learning, NLP, forecasting, visualization, documentation, and presentation for faculty review.

- Defined prediction goals and preprocessing steps for a 60,000 record dataset using **Python** notebooks.
- Compared **machine learning** models through validation results, error review, and documented selection criteria.
- Tested time series assumptions against held out periods and presented forecast uncertainty with trend findings.
- Evaluated **NLP** and **text mining** experiments, recording representative classification failures for faculty discussion.
- Built **Tableau** views connecting statistical findings with model outputs for a 16 person audience.
- Maintained source control, testing artifacts, and project notes consistent with **software development life cycle** practices.

Computer Vision Research Student, University Research Lab
University Research Lab

September 2025 - December 2025
Springfield, MO

Supported supervised computer vision research through Python prototyping, SAS comparison, statistical review, visualization, reproducibility, and faculty communication.

- Built a Python **computer vision** prototype with documented training and validation splits for image analysis.
- Reviewed class balance and misclassified images to identify data quality and model behavior issues.
- Compared descriptive results in **SAS** and Python, confirming core calculations across separate analytical workflows.

- Prepared visualizations and a research memo covering methods, evidence, limitations, and next experiments.
- Organized scripts and environment notes so another student could reproduce analysis without undocumented settings.
- Presented research findings to faculty and answered questions about scope, limitations, and future hypotheses.

Software and Data Engineering Student, Course Project

January 2025 - May 2025

University Course Program

Springfield, MO

Developed supervised software and data **engineering** coursework spanning Java services, APIs, containers, build automation, testing, and presentation.

- Developed a **Java** application exposing a **REST API** for a small analytical dataset.
- Implemented **Spring Boot** services with microservice style components and documented interface behavior.
- Containerized application components with Docker and configured Jenkins build and test steps.
- Added **JavaScript** results views and completed C++ exercises covering data structures and debugging.
- Followed **software development life cycle** stages from requirements through design, testing, and demonstration.
- Delivered setup instructions, API examples, test evidence, and presentation materials for course reviewers.

PROJECTS

Predictive Analytics and Forecasting Study 📅 2026

Created a reproducible Python study combining statistical checks, model evaluation, time series forecasting, and Tableau communication for a mixed academic dataset.

Text Classification and Vision Lab 📅 2025

Explored NLP, text mining, and computer vision through labeled academic data, documented errors, and presented findings with clear evidence and limitations.

LEADERSHIP & AWARDS

- Dean's List, Missouri State University, 2025 and 2026
- Undergraduate Research Presentation Recognition, 2026
- Computer Science Academic Scholarship, 2025

CERTIFICATIONS

- IBM SkillsBuild Artificial Intelligence Fundamentals 📅 2026
- Coursera Machine Learning Specialization 📅 2026
- Docker Foundations Learning Course 📅 2026

PROFESSIONAL AFFILIATIONS

- Computer Science Student Association, Peer Coding Session Volunteer, 2025 to 2026
- Undergraduate Research Forum, Student Presenter, 2026
- Campus Data Challenge, Team Participant, 2025

LANGUAGES

- English (Native)
- Spanish (Proficient)

ADDITIONAL INFORMATION

Work Status : Authorized to work in United States. No sponsorship required.

REFERENCES

AVAILABLE ON REQUEST