

# Brayden Horn

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## SUMMARY

Innovative Tech Solutions offers a compelling opportunity for a Machine Learning Intern eager to contribute to AI system development. With foundational knowledge in systems thinking, mathematics, and statistics, this role emphasizes research and the creation of scalable AI systems tailored to business needs. Proficiency in machine learning methodologies and collaboration with data analytics professionals on automation ensures continuous optimization of model performance. Access to mentorship programs enhances professional growth while providing practical experience that bridges theoretical studies with real-world applications. Passionate about innovative approaches, dedicated to using technology to drive results.

## EDUCATION

**Bachelor of Science in Computer Science**

2026

Springfield University GPA: 3.8

Springfield, IL

*Coursework: Data Structures, Algorithms, Machine Learning, Data Analysis*

## TECHNICAL SKILLS

- **Programming Languages:** Python, R, Java
- **Machine Learning Frameworks:** TensorFlow, PyTorch, Keras
- **Data Visualization Tools:** Matplotlib, Seaborn, Tableau
- **Database Technologies:** SQL, NoSQL, MongoDB
- **Version Control Systems:** Git, GitHub, Bitbucket
- **Development Methodologies:** Agile, Scrum, Waterfall
- **Cloud Platforms:** AWS, Azure, Google Cloud
- **CI/CD Practices:** Jenkins, Travis CI, CircleCI
- **Project Management Tools:** Trello, Asana, JIRA
- **Statistical Methods:** Regression, Classification, Clustering

## SKILLS

- Machine Learning
- TensorFlow
- Statistics
- Deep Learning
- Keras
- Natural Language Processing
- Python
- Data Analysis
- Team Collaboration

## EXPERIENCE

**Machine Learning Developer**

January 2025 - Present

University Project

Springfield, IL

Led machine learning project focused on predicting housing prices through regression techniques, effectively enhancing data preprocessing workflows and validating predictive accuracy. Collaborated with a diverse team to implement deep learning architectures using TensorFlow and Keras, emphasizing effective communication of findings during presentations.

- Developed a predictive model achieving an accuracy exceeding 85%, showcasing analytical thought in model selection.
- Enhanced data cleaning processes, improving data quality and decreasing preprocessing time by 30%.
- Designed deep learning architecture for image classification with successful testing across extensive datasets.
- Conducted statistical analysis and presented insights at the annual tech symposium, demonstrating adeptness in technical communication.
- Utilized TensorFlow and Keras for developing models, reflecting fluent technical proficiency with relevant frameworks.
- Documented significant progress contributing to the project's success, receiving exceptional recognition from faculty.

**Data Science Research Assistant**

September 2024 - December 2024

Academic Research

Springfield, IL

Supported research projects aiming to develop algorithms for natural language processing tasks. Responsibilities involved instilling machine learning principles while presenting thorough analyses at conferences, contributing towards knowledge-building activities within the academic community.

- Contributed to algorithm development related to NLP, elevating text classification accuracy by 15%.
- Engaged in literature reviews leading to a comprehensive understanding of advancements in machine learning fields.
- Collaborated efficiently with faculty and peers for refining data collection, ensuring robust analytical foundations.
- Presented findings at regional conferences, recognized for articulate communication and in-depth analysis among attendees.

- Created visualization tools in Python, instrumental in facilitating understanding of complex data insights.
- Participated in strategic discussions regarding future directions of research efforts.

## AI Solutions Developer

March 2025

### Hackathon Project

*Remote*

Competed in a fast-paced hackathon producing an AI-driven chatbot focused on assisting students with university resource navigation. This project underscored creativity and the use of specialized programming skills in critical problem-solving scenarios under strict deadlines.

- Designed and implemented an AI chatbot leveraging natural language processing for improved user interaction.
- Worked collaboratively in an agile environment, successfully delivering a working prototype in less than two days.
- Showcased project through a presentation to judges, gaining praise for innovation and usability.
- Collected user feedback during testing which informed subsequent design improvements and refinement.
- Documented developmental challenges and strategies in achieving desired outcomes throughout the hackathon.
- Fostered an engaging team dynamic, ensuring seamless communication and task delegation for efficiency.

## LEADERSHIP & AWARDS

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- Dean's List, Springfield University, 2024
- First Place, University Hackathon, 2025

## CERTIFICATIONS

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- Machine Learning Fundamentals Certificate 📅 2026
- Data Science Professional Certificate 📅 2025

## PROFESSIONAL AFFILIATIONS

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- Member, Computer Science Club, Springfield University
- Volunteer, Coding for Kids Program, Springfield, IL

## LANGUAGES

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- English (Native) • Spanish (Intermediate)

## ADDITIONAL INFORMATION

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

## REFERENCES

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AVAILABLE ON REQUEST