

Jake Stetson

JUNIOR SOFTWARE DEVELOPER

Professional Profile: <https://github.com/JakeStets5/JakeStets5.github.io>

Summary

Seeking an entry-level software engineering position to leverage my education in software development, AI and mathematics. I have a professional background in Artificial Intelligence (AI) and Android app development, and an educational background in object-oriented programming.

Work/Project Experience

Swine Fever Project, Kansas State University 6/24 – Present

- Developed an Android app for classifying African swine flu test results using machine learning
- Developed a machine learning model in Azure to provide fast, accurate computation in the cloud
- Developing a web application using React and Leaflet to visualize the Android app data using an interactive heat map
- Implemented an Express server with SQLite for database management and persistent storage of data
- Addressed and resolved challenges related to training and optimizing a machine learning model for mobile deployment
- Coordinated with agriculture and computer science departments to align project requirements

Managed Application Services Intern, RSM 6/23 – 9/23

Led and presented project updates and research findings in professional meetings. Completed three distinct projects during internship:

Reference Program: Executed a multi-step project involving manual data extraction from Excel and PDF files, database storage, development of a Power App, and creation of an X++ program to scrape a client's D365 environment

D365 Project: Collaborated with a team to create a product and simulate its lifecycle in D365 Finance and Operations within a mock environment

Capstone: Conducted in-depth research on Hershey, a client of RSM

Student-Athlete Tutor, Kansas State University 2/23 – 12/23

- Tutored multiple student athletes at Kansas State University
- Provided instruction in Calculus I-III, Python, Algebra, and Discrete Math
- Communicated complex technical concepts to beginners, enhancing personal understanding and teaching skills
- Delivered instruction in both one-on-one and group settings

Senior Capstone 1/24 – 5/24

- Designed and developed a heat stress monitoring app to assess and manage heat-related risks for cattle
- Implemented real-time data collection and analysis features to provide users with accurate heat stress risk assessments
- Integrated location-based weather services to tailor recommendations based on local conditions and heat indices
- Developed a user-friendly interface with intuitive navigation and alerts for heat stress management
- Conducted extensive testing and validation to ensure the app's reliability and accuracy in various environmental conditions

Contact

✉ Jakestets5@outlook.com

📞 720-695-7111

📍 Broomfield, CO 80020

🌐 [LinkedIn.com/jakestets5](https://www.linkedin.com/jakestets5)

Education

General

- Kansas State University, Manhattan KS May 2024
- Bachelor of Science in Computer Science
- Minor: Math
- Cumulative GPA: 3.69

Relevant Coursework

- Calculus 3, Python, Java, C#, C, SQL, Machine Learning, Kotlin
- MATH DRP – semester-long mentorship program regarding the relationship between math & machine learning
- A completed project that uses multiple machine learning models to detect disease in wheat

Skills

AI

TensorFlow, PyTorch, Large Language Models, Vision models (classification, segmentation, and detection), Roboflow, Azure

Languages

Python, Java, JavaScript, C#, C, SQL, Kotlin, X++

Environments

Visual Studio, Google Colab, GitHub, D365 Finance and Operations