

Jake Stetson

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Summary

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

Skills

AI - TensorFlow, Porch, Large Language Models, vision models (classification, segmentation, and detection), Roboflow

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

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

Education

Kansas State University, Manhattan KS
Bachelor of Science in Computer Science (**BSCS**)
Minor: Math

May 2024
Cumulative GPA: 3.69

Work Experience

Software Developer, Kansas State University

June 2024 – Present

- Swine Fever Project
 - Developed an Android app for classifying African swine flu test results using machine learning
 - Integrated a TensorFlow Lite machine learning model into the app for efficient on-device computation
 - Developing a web application using React and Leaflet to visualize the Android app data using an interactive 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

June 2023 – August 2023

- 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
 - **Capstone:** Conducted in-depth research on Hershey, a client of RSM
 - **D365 Project:** Collaborated with a team to create a product and simulate its lifecycle in D365 Finance and Operations within a mock environment

Student-Athlete Tutor, Kansas State University

February 2023 – December 2023

- Tutored diverse student athletes at Kansas State University
- Provided instruction in subjects including 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

Relevant Coursework

College Coursework

- Calculus 3, Python, Java, C#, C, SQL, Machine Learning, Kotlin
- MATH DRP – a semester long mentorship program based on math's relationship with machine learning
- A completed project that uses multiple machine learning models to detect disease in wheat

Senior capstone

January 2024 – May 2024

- 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 services to tailor recommendations based on local weather 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