

Jacob Kriss

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Education

Skidmore College, Saratoga Springs, NY

Major: Computer Science

Minor: Business

Major GPA: 3.33

Expected Graduation: January 2026

Relevant Coursework

Independent Study (Computational Agriculture)

- Training a machine learning model using data repositories to make precise decisions in a solar powered hydroponic system.
- Using Arduino microcontrollers and sensors to send relevant data to trained model for processing and decision output.
- Exploring the efficacy of various models in sustainable precision agriculture.

Software Design (CS226)

- Implemented logging and unit testing in large code bases, focusing on scalability and code quality.
- Utilized design patterns, JUnit, and JaCoCo frameworks.

Design and Analysis of Algorithms (CS305)

- Designed algorithms for complex problems, emphasizing time and memory efficiency.
- Applied advanced data structures and sorting techniques to optimize performance.
- Developed solutions using dynamic programming, greedy methods, graph algorithms, and amortized analysis.
- Studied optimization through linear programming techniques.

Business and Organizational Management (MB107)

- Developed business strategies, financial plans, and rollout initiatives, with an emphasis on collaborative project management.
- Practiced pitching strategies simulating real-world business scenarios.

Relevant Experience

Instructor, ID Tech, Harrison, NY

June 2024–August 2024

- Managed groups of students aged 14–18, fostering collaboration and engagement in technical projects.
- Delivered machine learning courses covering foundational concepts in Python, TensorFlow Keras, NumPy, and data preprocessing.
- Guided students through the development of hands-on projects, including neural networks and multithreaded applications.
- Adapted teaching methods to accommodate diverse learning styles and technical backgrounds.

Intern, JDM Import Co, Manhattan, NY

June 2022–August 2022

- Conducted detailed market and pricing analysis, identifying customer trends to drive product strategy.
- Gained hands-on experience with MongoDB by assisting data analysts in storing, cleaning, and processing large datasets.
- Supported project management tasks by organizing team deliverables and tracking milestones

Store Employee, Mike’s Organic, Stamford, CT

June 2021–August 2021

- Coordinated order packaging and delivery with a focus on quality and timeliness.
- Developed recipes to minimize food waste, collaborating with chefs to repurpose ingredients efficiently.

Technical Experience

- Designed and deployed **Flask APIs** for seamless backend operations and integration with cloud services.
- Built scalable applications using **AWS Lambda** for serverless computing and **EC2** instances for reliable hosting.
- Implemented dynamic, interactive user interfaces with real-time data updates.
- Utilized **MongoDB** for database management and optimized data storage for scalability.
- Adopted **Scrum** and **Kanban** methodologies to manage tasks, prioritize features, and ensure iterative development cycles.

Activities & Achievements

- **3rd Place**, Kenneth A. Freireich Entrepreneurship Competition: Developed a multiplatform app and comprehensive business strategy.
- Active Member, **Skidmore Codes Club**: Participated in hackathons, applying agile practices for team-based projects.

Skills

Programming Languages: Java, Python, JavaScript, C

Databases: MongoDB, Firebase

Tools & Technologies: Flask, AWS Lambda, AWS EC2, TensorFlow, NumPy, Pandas, Linux, Excel, Arduino, Node.js, Scrum, Kanban