Jacob Kriss

(646) 954-0087 | jkriss@skidmore.edu | jacobkriss.com | LinkedIn | GitHub

Education

Skidmore College, Saratoga Springs, NY   Expected Graduation: January 2026
Major: Computer Science
Minor: Business
Major GPA: 3.4

Relevant Coursework

Foundations of Machine Learning (CS316)
- Implemented machine learning algorithms using NumPy and PyTorch through hands-on labs
- Built and evaluated ML models using gradient descent, support vector machines, and neural networks

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.

Business and Organizational Management (MB107)
- Developed business strategies, financial plans, and rollout initiatives, with an emphasis on collaborative project management.

Relevant Experience

IT Intern, Voya Financial, Windsor, CT
June 2025–August 2025
- Developed and maintained robotic process automations in UiPath and C# to streamline operations and improve data accuracy.
- Refactored existing automations for greater reliability and performance, integrating dynamic logging and exception handling systems.
- Implemented OCR-based email parsing and helped to train machine learning models for communications mining, enabling more dynamic automation workflows.
- Collaborated across IT and business teams to translate complex operations into scalable automation pipelines.
- Participated in community outreach initiatives, promoting company-wide volunteer engagement.

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

Technical Experience

- **Backend Development:** Designed scalable backend services in Go and TypeScript, focusing on concurrency, structured communication, and modular package design. Built a custom TCP-based networking protocol for a chat application that supports request-response synchronization, payload framing, and connection persistence.
- **Database Management:** Implemented and maintained PostgreSQL databases for production grade applications, including Skidmore College dining hall web backend. Designed relational schemas, optimized queries, and managed migrations for long-term maintainability.
- **Cloud Computing:** Deployed full-stack applications using AWS (EC2, Lambda) and Digital Ocean droplets. Configured reverse proxies and encryption for secure multi-app hosting. Independently set up and managed remote Linux-based servers as affordable personal hosting solutions for clients, handling network configuration, port forwarding, and uptime monitoring.
- **Networking & Protocols:** Developed and analyzed low-level client-server communication flows, using Wireshark to inspect packet transmission and debug protocol framing: utilizing multiplexing, session state management, and custom payload encoding to create robust data transport mechanisms over raw TCP.
- **Agile Methodologies:** Adopted Scrum and Kanban frameworks to manage tasks, prioritize features, and ensure iterative and collaborative development cycles.

Activities & Achievements

- **3rd Place**, Kenneth A. Freireich Entrepreneurship Competition: Developed a multiplatform app and comprehensive business strategy.

Skills

Programming Languages: Java, Python, JavaScript, Typescript, C, Go, C#

Tools & Technologies: AWS, SQL, TensorFlow, NumPy, Linux, Excel, Node.js, Kanban, Git, Bash, Pytorch, Pandas, DigitalOcean, UIPath, Wireshark