Jacob Kriss

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Education

Skidmore College, Saratoga Springs, NY   Expected Graduation: January 2026
Major: Computer Science
Minor: Business
Major GPA: 3.33

Relevant Coursework

Independent Study (Computational Agriculture)
- Training a machine learning model using data repositories to make precise decisions in a solar powered hydroponic system.
- 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.

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

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

- **Backend Development:** Designed and deployed Flask APIs to support seamless backend operations and integration with cloud services. Proficient in building backend systems with Node.js and Golang, leveraging Object-Oriented Programming (OOP) principles to optimize code readability and ensure sustainable growth of backend infrastructure.
- **Database Management:** Managed data with MongoDB and SQL databases, focusing on efficient data modeling, query optimization, and scalable storage solutions for complex applications.
- **Cloud Computing:** Built scalable applications using AWS Lambda for serverless computing and EC2 instances for reliable hosting. Architected cloud solutions to balance performance and cost-effectiveness.
- **Containerization**: Leveraged Docker to containerize applications, ensuring consistency across environments, simplifying deployment, and improving scalability and maintainability of software solutions.
- **Agile Methodologies:** Adopted Scrum and Kanban frameworks to manage tasks, prioritize features, and ensure iterative and collaborative development cycles.
- **Collaboration and Adaptability:** Contributed to established codebases by collaborating with experienced backend developers, quickly learning and improving complex systems to enhance overall user experience.

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, SQL, TensorFlow, NumPy, Linux, Excel, Arduino, Node.js, Scrum, Kanban, Golang, Git, Bash, Docker