AYDAN J. GERBER

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EDUCATION

Cornell University, Ann S. Bowers College of Computing & Information Science   **Ithaca, NY**
Candidate for Bachelor of Science in Information Science; Concentration in Data Science   *Expected, May 2028*
Cumulative GPA: 3.82/4.0
Relevant Coursework: Object-Oriented Programming and Data Structures, Linear Algebra, Software Design & Development with Python, Statistics and Data Science, User Experience (UX) Design & Prototyping, Finance

PROFESSIONAL EXPERIENCES

REKKIE   **Remote**
Algorithm & Data Science Intern   *Jan 2026 – Present*
• Developed ML-based models to classify skier GPS time-series into specific runs and chairlifts using geospatial map data and labeled terrain
• Engineered motion and spatial features from GPS signals (altitude change, speed, heading) to segment trajectories across overlaps and crossings
• Generated per-run and per-lift statistics including vertical, distance, time, and speed to power analytics in redesigned iOS and Android apps

Outamation   **Remote**
Extern   *May 2025 – July 2025*
• Built an AI-powered classification system for mortgage documents using open-source LLMs (Mistral-7B and Phi-2) with improved accuracy
• Optimized Retrieval-Augmented Generation pipelines using embeddings, hybrid retrieval, and custom chunking to improve speed and relevance
• Benchmarked model performance with DocLLM and LlamaIndex, delivering recommendations that increased data-extraction accuracy by 30%

theCoderSchool   **Scarsdale, NY**
Computer Science Instructor   *May 2024 – August 2025*
• Instructed 60 K-12 students in coding through private lessons and group classes strengthening foundational computer science understanding
• Introduced engineering concepts through Lego robotics such as gears, motors, and piston designs resulting in a deeper understanding of physics
• Fostered coding skills using Java and Python through hands-on interactive coaching and programming concentrating on game development

Iona University   **New Rochelle, NY**
Teaching and Lab Assistant, Physics 101   *June 2023 – August 2023*
• Facilitated 12 lab setups, devised a detailed kinematics experiment, and created a comprehensive 20 page instructional manual with diagrams
• Guided 15 students through assignments in kinematics, forces, and energy resulting in increased understanding of material and concepts
• Repaired 5 pieces of old lab equipment and assisted students throughout lab setup and execution allowing for better conceptual understanding

RESEARCH EXPERIENCES AND ACTIVITIES

Cornell Data Science Project Team   **Ithaca, NY**
Team Member   *September 2024 – present*
• Developed LiveDance, a real-time computer vision application integrating pose estimation (MoveNet, BlazePose) with stable skeletal rigging
• Evaluated posture, timing, and alignment, delivering corrective feedback that improved user learning beyond existing scoring tools
• Partnered on a hedge-fund–sponsored Millennium electricity load forecasting project, developing models to inform trading and risk decisions

Cornell Fintech Club   **Ithaca, NY**
Financial Analyst   *September 2024 – present*
• Evaluate and present pitches on private tech/SaaS companies (EV < $1b) to invest in and determine appropriate exit strategy for investors
• Collaborated on FinSight AI, a fintech chatbot leveraging Retrieval-Augmented Generation (RAG) to deliver financial information to users
• Achieved a 90% accuracy in delivering up-to-date financial news and analysis and interviewed 20+ potential users to understand pain points

Student Activities Funding Commission   **Ithaca, NY**
Financial Consultant   *September 2024 – present*
• Offer financial planning, compliance, and logistics services by allocating $2M+ of funds across 900 on-campus organizations within Cornell
• Collaborate with Cornellian governance streamlining $400k distribution among administrative organizations, improving student and campus life
• Analyzed budgets and funding requests to support data-driven allocation decisions while ensuring compliance with university financial policies

Cambridge University Press & Assessment   **Remote**
Independent Researcher & Author   *September 2022 – May 2023*
• Applied topic modeling with Latent Dirichlet Allocation to machine learning study on social media discourse with a focus on sustainability
• Found insights into how consumers and businesses interact with sustainability topics on social media and key trends in discussion on X
• Highlighted the dominant topics of discussion such as global corporate sustainability practices, environmental activism, and green technology
• Paper published in Environmental Data Science journal by Cambridge University Press, DOI: 10.1017/eds.2024.4

AWARDS, SKILLS, & INTERESTS

Awards: Regeneron Science & Engineering Fair (WESEF): 2nd overall & Ricoh Sustainable Development Award, Westchester-Rockland Junior Science & Humanities Symposium 3rd place: Speaker in Behavior III Category, First Honors, AP Capstone Diploma, AP Scholar with Distinction
Relevant Skills: Python, Java, Data Analysis, Natural Language Processing (NLP), Product Strategy, Communication, Leadership
Interests: Tennis, Weightlifting, Sustainability, Technology, Philosophy, Poker