

HARRIS PROCTOR

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EDUCATION

Colorado College, Colorado Springs, CO

2026

Bachelor's Degree in Computer Science, Honors | Grace Hopper Excellence Prize, May 2026

Key Coursework: Theory of Computation, Software Design, Computer Organization, Data Structures and Algorithms, Discrete Math

Grace Hopper Excellence Prize: Awarded annually to a graduating senior demonstrating exceptional commitment to the Colorado College computer science community.

RESEARCH EXPERIENCE

Undergraduate AI Researcher | Colorado College, Colorado Springs, CO

May 2025 – August 2026

NSF Award #2434704

- Acquire, parse, clean, and prepare data for fine-tuning large language models designed to improve mathematical conjecture generation.
- Develop specialized retrieval-augmented generation (RAG) systems to improve nuanced retrieval of mathematical content.
- Evaluate RAG systems based on real-world mathematical conjecture-generation performance.
- Build AI-based evaluation models to assess the mathematical value of natural-language outputs.
- Prepare research papers and posters and present findings at professional venues, including the Joint Mathematics Meetings.

PROFESSIONAL EXPERIENCE

Computer Science & Mathematics Tutor | Colorado College, Colorado Springs, CO

Aug 2025 – May 2026

- Provided one-on-one and small-group tutoring in Data Structures and Algorithms, Discrete Math, Software Design, Calculus, and other core quantitative courses.
- Collaborated with faculty and the Quantitative Reasoning Center to align tutoring with course expectations and reinforce theoretical and applied concepts.
- Diagnosed conceptual gaps and translated complex computational and mathematical ideas into clear explanations tailored to individual learning styles.

Mobile App Development Intern | Beyond Literacy, Philadelphia, PA

Dec 2024 – Aug 2025

- Designed and developed a user-friendly mobile application for Pennsylvania's largest adult education nonprofit.
- Built a cross-platform iOS and Android app enabling learners to access class information, organizational resources, and opportunities.
- Implemented a backend integration with the organization's existing Salesforce databases.

Reference: Alexis Smith, Digital Literacy Specialist | asmith@beyondliteracy.org | 267-946-3635

TECHNICAL SKILLS

Languages: C#, Java, Python, JavaScript, C++

Frameworks, Libraries & Tools: PyTorch, Pandas, TensorFlow, OpenCV, NumPy, scikit-learn, React, React Native, Expo, MySQL, LeRobot, Hugging Face

Robotics: LeRobot ALOHA Mini, SO-101 Robotic Arm, custom FRC drivetrains and mechanisms

Fabrication & Control: Fusion 360 CAD, mechanical prototyping, embedded systems, circuit design

ROBOTICS

- FIRST Robotics Competition — Team 1218, SCH Robotics, Springside Chestnut Hill Academy
- FIRST Tech Challenge — Team 9997, Wolf Pack Robotics, AIM Academy
- FIRST LEGO League — Wolf Pack Robotics, AIM Academy