

Kyle Ketterer

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EDUCATION

The Pennsylvania State University, University Park

Graduated: May 2025

Bachelor of Science: Computer Science - College of Engineering

Minors: Cybersecurity, Engineering Leadership Development

PROJECTS

First Place – ACRP University Design National Competition

January 2024 – August 2024

- Project: "Reducing Idle Time via Machine Learning" – Airport Management & Planning category.
- Utilized Random Forest Regression to analyze public flight data.
- Demonstrated savings of 1 day of airplane idling time within 1 week of flights at Pittsburgh Airport.

First Place – Penn State Nittany AI Challenge – bioWatch

December 2023 – June 2024

- Developed a mobile app leveraging artificial intelligence to identify & report invasive species, specifically focusing on the detection of spotted lanternflies & box tree moths.
- Engineered machine learning models using segmentation techniques to enhance detection accuracy.

First Place – Penn State Cheat-a-thon (Prompt Engineering Competition)

April 2025

- Crafted answers to 66 AI-resistant academic questions using prompt engineering and LLMs.
- Scored 100% across six disciplines including CS, math, and statistics.

Dynamic Memory allocator – Language: C

June 2024 – July 2024

- Developed a custom version of malloc, free, & realloc functions.
- Ensured memory integrity, adhering to project guidelines (utilization, throughput metrics).

Nittany Business – Languages: Python, SQLite, HTML, CSS

January 2025 – May 2025

- Built a student-run e-commerce site with buyer/seller accounts, product listings, and review system.
- Used Flask, SQLite, and Jinja2 to manage transactions, security, and dynamic content.

EXPERIENCE

AI Writing Evaluator – Outlier AI

August 2024 – Present

- Evaluated 100+ AI-generated responses weekly for quality, consistency, and adherence to guidelines.
- Assessed outputs from RAG-based systems to identify hallucinations, citation mismatches, and knowledge grounding issues.

Risk Management Intern – Citadel Credit Union

June 2024 – August 2024

- Mitigated over 20 potential fraud cases involving external transfers, saving Citadel over \$10,000.
- Documented 500+ ERM/ORM events to improve risk monitoring.
- Prepared over 10 court subpoenas, adhering to legal standards & deadlines.
- Managed 2,000+ risk inquiries, reducing response time and improving internal satisfaction ratings.

Warehouse Fulfillment Associate – JBI Bike

May 2022 – August 2022

ORGANIZATIONS

Nittany AI Student Society

August 2023 – May 2025

- Completed the Machine Learning Boot Camp, Leadership Academy, & Nittany AI Challenge.

Penn State Men's Club Soccer – THON Chair & Player

September 2022 – May 2025

- Led THON event coordination (5K, Kickball, Team Marathon) & fundraising, raising over \$6,000.
- Facilitated the recruitment of 8 members from over 300 candidates.

FTC Robotics – Team Founder/President & Mentor

September 2017 – February 2024

- Designed, built, & competed robots in regional & state competitions. Promoted STEM to community.
- Provided guidance to students in weekly virtual meetings about practical robotic solutions.

Penn State Division 1 Men's Soccer – Player

January 2023 – May 2023

SKILLS

Python, Java, C, JavaScript, SQL, HTML/CSS, Node.js, Flask, PyTorch, Git, Linux, Docker, Jinja2, LaTeX, UiPath, Roboflow, Fusion 360, Video Editing