# Lucas Steinmetz

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## EDUCATION

**Villanova University**                                                                    Villanova, PA
*GPA: 3.6/4.0 | Dean's List | Bachelor of Science in Computer Science, Minor in Cybersecurity*                    *May 2027*

## EXPERIENCE

**DevSecOps Engineer Intern**                                                           May 2025 – Present
*The Cigna Group*                                                                       *Philadelphia, PA*
- Contribute to the secure integration of subsidiary eviCore by assisting with identity and access management, refining Azure role-based access control (RBAC) policies and auditing Active Directory groups.
- Harden cloud infrastructure security by authoring dynamic Terraform configurations to implement advanced encryption and security controls for Windows and Linux Virtual Machine Scale Sets (VMSS).

**Data and Technology Intern**                                                          Oct 2024 – Present
*Villanova Career Center*                                                               *Villanova, PA*
- Develop automated data workflows to organize and process large datasets from various university sources, directly improving the efficiency and accuracy of the Career Center's operational reporting.
- Enhance the Career Connections web platform by developing new, accessible front-end components and integrating novel AI-driven solutions to expand the impact of career development tools.

**AI Task Force**                                                                       Sep 2024 – Present
*Villanova University*                                                                  *Villanova, PA*
- Collaborate directly with senior university leadership and faculty as the task force's sole undergraduate representative, providing critical student perspective to shape ethical AI guidelines and best practices.
- Analyze and evaluate emerging AI applications to enhance academic resources, providing critical insights that directly support and shape long-term, university-wide strategic goals for technology integration.

**Championship Intern**                                                                 May 2024 – Sep 2024
*United States Golf Association*                                                        *Philadelphia, PA*
- Optimized championship operations by leveraging database management and online registration systems to streamline tournament administration and enhance communication for a large volunteer workforce.
- Analyzed extensive event datasets to build insightful reports and dashboards in Tableau for senior management, leading to data-driven improvements in operational efficiency for future tournaments.

**Golf Operations Assistant**                                                           June 2018 – May 2024
*Spring Ford Country Club*                                                              *Royersford, PA*
- Directed daily golf operations, including supervising a team of 5 employees, managing pro shop procurement, and cultivating relationships with over 220 members to uphold luxury service standards.
- Led the pro shop's digital launch, generating $126,000 in online sales within the first 18 months.

**Incoming Software Engineering Intern**                                                Aug 2025 – Dec 2025
*Dicastery for Communication*                                                           *Vatican City*

## PROJECTS

**AI-Powered Health Program Navigator** | *RAG, LLMs, FastAPI, Vector DB*               May 2025 – Present
- Architect and develop a Retrieval-Augmented Generation (RAG) system using FastAPI to match user queries with personalized health vendor programs, enhancing Cigna member engagement and trust.
- Implement a multi-layered guardrail system to ensure query relevance and mitigate model hallucination, and integrate a user feedback loop to continuously fine-tune the recommendation engine.

**Traumatic Brain Injury Prediction** | *Python, Scikit-learn, Supervised ML*           Jan 2024 – Sep 2024
- Engineered and evaluated 18 machine learning models on a clinical dataset of 300 pediatric TBI patients, creating a robust framework to accurately predict mortality and guide personalized interventions.
- Authored a research paper on the findings which was published by IEEE and formally presented at the IEEE CCWC 2025 conference in Las Vegas, showcasing the integration of ML into clinical workflows.

## HONORS & SKILLS

**Honors**: J. Wood Platt Caddie Scholar, PSECU Scholarship Recipient, PGA Scholarship Award Recipient
**Languages**: Python, Java, Go, C#, TypeScript, JavaScript, SQL, C++, HTML/CSS, PowerShell, R
**Frameworks & Libraries**: React, Node.js, TensorFlow, NLTK, FastAPI, Flask, Django, Pandas, NumPy, Scikit-learn
**Cloud & DevOps**: AWS, Azure, Google Cloud Platform (GCP), Docker, Terraform, CI/CD, Git, IaC Security
**Databases & Data Tools**: PostgreSQL, SQLite, Firebase, Vector Databases (ChromaDB, Redis), Tableau
**Developer Concepts**: Machine Learning, REST APIs, LLMs, AI Safety, Agile/Scrum, Data Structures& Algorithms