Emmalyn Holmquist

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EDUCATION

Saint Mary's College | Notre Dame, IN — *Expected May 2026*
Bachelor of Science, Major: Mathematics — GPA: 3.59
Pursuing a 4+1 Dual Degree program with the University of Notre Dame
University of Notre Dame | Notre Dame, IN — *Expected May 2027*
Bachelor of Science, Major: Computer Science Engineering; Minor: Engineering Corporate Practice — GPA: 3.44
Interdisciplinary Training and Research in Ethical Data Science (ITREDS) Scholars Program
Notre Dame London, England Summer Engineering Program | London, England — *July - August 2025*

RELATED COURSEWORK AND PROJECTS

Design for America | University of Notre Dame — *August 2023 - August 2024*
- Collaborated with team members in weekly meetings to discuss project goals and development plans
- Applied Design Thinking methodologies to research and provide consulting for a local non-profit organization

Statistics | Saint Mary's College — *August 2024 - December 2024*
- Leveraged RStudio's tidyverse for statistical tests and visualizations, extracting actionable insights from large datasets
- Collaborated with a team to collect, preprocess, and analyze customer experience data, delivering data-driven recommendations that supported a farm's mission of equity and social impact

Systems Programming | University of Notre Dame — *January 2025 - May 2025*
- Implemented a brute-force password cracker in Python utilizing generators and multiprocessing to maximize runtime efficiency and memory usage while working in a Visual Studio Code environment

Data Science for Engineers | University of Notre Dame in London, England — *July - August 2025*
- Developed fraud detection models using classification algorithms in Python, evaluating the business impact of false positives and false negatives on fraud detection to inform model selection and improve outcomes
- Preprocessed data and implemented supervised/unsupervised ML algorithms using scikit-learn, pandas, and NumPy
- Optimized performance on imbalanced datasets with resampling and metrics such as Precision, Recall, and F1-score
- Built and validated classification, regression, and clustering models for data-driven solutions and decision-making

EXPERIENCE

Sparks Camps | Remote/International
Social Media Coordinator — *May 2024 - Present*
- Manage and promote brand identity over Facebook and Instagram to deliver a consistent message to a global audience
- Communicate remotely with international camp staff to ensure alignment on social media strategy
- Create interactive content with Canva and Meta Business Suite, analyzing growth metrics to optimize performance
- Design strategies to streamline photo management across multiple camps, enhancing efficiency and consistency

Program Leader - Multiple Locations — *August 2023 - August 2025*
- Oversaw camper well-being and safety, coordinated large group activities, and ensured a positive camp environment
- Mentored small groups of 10 campers, promoted active engagement and fostered an environment of inclusivity

National Education Equity Lab | Notre Dame, IN
Teaching Fellow - Responsible & Ethical AI — *August 2025 - Present*
- Lead weekly virtual discussions for a cohort of 15 students, fostering critical thinking on the ethical landscape of AI

Big E's Sports Bar & Grill | Grand Rapids, MI
Server — *May 2023 - December 2024*
- Managed multiple tables simultaneously in a fast-paced environment, building rapport and ensuring customer satisfaction through enthusiastic and personalized service

LEADERSHIP AND ACTIVITIES

Math Club | Saint Mary's College
Vice President — *August 2024 - Present*
- Foster open collaboration and discussion during biweekly meetings, providing creative insights and ideas to promote the club's physical and financial growth; assist the president in conducting board meetings and club events

Sailing Club | Saint Mary's College — **Notre Dame, IN**
President — *August 2023 - May 2025*
- Actively collaborated with the Notre Dame Sailing Club to foster open communication and camaraderie between teams
- Demonstrated strong leadership skills by delegating tasks and encouraging inclusive discussion during board meetings
- Implemented a new dues structure that lowered member costs while boosting revenue, ensuring sustainable growth

SKILLS

Technical: Python (scikit-learn, pandas, NumPy, matplotlib), C, VS Code, R (tidyverse), Microsoft Office, LaTex, Git, Bash