Lily Gniedziejko

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EDUCATION

University of Illinois Urbana-Champaign, *B.S.* in Computer Science *GPA: 3.96/4.00* | Expected Graduation: 05/2028

- *Relevant Coursework (to be completed by Summer, 2026):* An Introduction to Computer Science I & II, Discrete Structures, Data Structures, Calculus II & III, Linear Algebra w. Computational Application, Physics Mechanics; Elec & Mag, Computer Architecture, Probability and Statistics for Computer Science, Software Engineering Lab
- *Awards:* Honored at the Siebel School of Computing and Data Science 2025 Celebration of Excellence, Dunn Family Scholarship recipient, Engineering Visionary Scholarship recipient

Highland Park High School, Highland Park, IL GPA: 4.66/4.0 | 2020-2024

- *Awards:* Salutatorian, Chamber of Commerce Scholarship

TECHNICAL SKILLS

- *Computer Languages:* Python, Java, JavaScript, C++, HTML, CSS, Flutter
- *Tools:* Kubernetes, Docker, Keras, TensorFlow, Git, Firebase/Firestore, Power BI, React JS/Native, Matplotlib, Flask, LangGraph/Chain, RAG, Microsoft Azure
- *Skills:* Site Reliability Engineering, AIOps, Full-Stack Engineering, Machine Learning, Artificial Intelligence, Data Visualization, Web Scraping, Computer Vision, OpenCV, Streamlit, Panel
- *Languages:* Polish (Native, Polish School Graduate), English (Native), Spanish (Professional Proficiency)

PROFESSIONAL EXPERIENCE

Mueller, Software Engineering Intern 05/25–09/2025

- Developed an internal chatbot that processes over 1,500 technical PDFs–including 400+ page manuals and engineering drawings–to assist the maintenance team, reduce downtime, and link directly to exact pages in source documents
- Created a Microsoft Teams bot that makes SQL queries and outputs PowerBi Dashboards
- Implemented a full-stack application for data entry for Autopour and Melting machines

Xlab, Research Intern under Professor Tianyin Xu | Systems and Site Reliability Engineering 06/25–Present

- Implemented tools for LangGraph agents, including Jaeger and Prometheus observability tools with summarization, LLM-based output summarizers, and PostgreSQL compilation modules
- Created and deployed the Kubernetes-based application used for TiDB fault injection and mitigation
- Applied fault injection, localization, and mitigation techniques to TiDB application scenarios to evaluate system resilience and recovery behavior

EXTRACURRICULARS AND LEADERSHIP

CS Student Ambassadors/Research Scholar | Ambassador & Researcher 07/2025–Present
• Represent Siebel School at events; mentor prospective students; conduct faculty-mentored research

Phi Sigma Rho (STEM Sorority) | Risk Manager & Social Media Director 09/2024–Present
• Led risk management training and supported recruitment/service events

ACM & Women in Computer Science | Member 09/2024–Present
• ACM (09/2024): Robotics workshops, HackIllinois, met to discuss AI adoption with startups and businesses
• WICS (01/2025): SQL/MongoDB workshops, peer mentorship on technical projects

Girls Who Code | Facilitator 09/2025–Present
• Developed and delivered K–12 coding curricula; mentored students to promote STEM equity

PROJECTS

FleetCast – Satellite Operations Simulator

- Built a real-time simulator for satellite telemetry and orbital passes with a station dashboard to display live satellite connections and telemetry data
- Powered by TiDB for data storage and fully containerized with Docker, Kubernetes, and Helm for deployment in the Site Reliability Engineering Lab (XLab)

YouTube AI Assistant – Chrome Extension

- Overlays YouTube with AI-generated summaries and quizzes using scraped transcripts and Langchain pipeline

RSO Swiper & Research Lab Finder – React Native App

- Built a swipe-to-save app with Firebase auth that filters RSO and lab cards using OpenAI embeddings based on user input; scraped UIUC CS sites and RSOs with BeautifulSoup and Cheerio

ML Racing Line Optimizer -*In Progress*

- Built a pipeline with FastF1 and Firebase to preprocess F1 telemetry and train BiLSTM models for condition-specific racing line prediction