

Lily Gniedziejko

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EDUCATION

University of Illinois Urbana-Champaign, B.S. in Computer Science GPA: 3.97/4.00 | 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, 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 (2x), Dunn Family Scholarship recipient, Engineering Visionary Scholarship recipient, Deans List (3x)

Highland Park High School, Highland Park, IL

GPA: 4.66/4.0 | 2020-2024

- *Awards:* Salutatorian, Chamber of Commerce Scholarship

PUBLICATIONS

Jackson Clark, Yiming Su, Saad Mohammad Rafid Pial, **Lily Gniedziejko**, and Tianyin Xu. **SREGym: A Live Training Ground for AI SRE Agents with High-Fidelity Failure Drills**. In Proceedings of the 1st ACM Conference on AI and Agentic Systems (CAIS '26).

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 working on <https://sregym.com/> (core team) | Systems and Site Reliability Engineering

06/25–Present

- Created and deployed the Kubernetes-based application used for TiDB fault injection and mitigation
- Implemented MCP tools for LangGraph agents, including Jaeger and Prometheus observability tools
- Built an automated distributed testing tool that uses tmux-based parallel execution to inject faults across remote nodes
- Created a trace visualization tool that converts JSONL agent outputs into readable HTML, streamlining the evaluation and debugging workflow for the research team
- Simulated diverse distributed-system failures, including network, control-plane, hardware, OS, correlated, and metastable faults

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

Girls Who Code | Facilitator

09/2025–Present

- Developed and delivered K–12 coding curricula; mentored students to promote STEM equity

PROJECTS

SREGym (<https://sregym.com/>) -> used by researchers at Microsoft Research, Resolve AI, the University of Washington, and SRE startups.

- Built AI SRE benchmark with challenging, high-fidelity SRE incidents using production-level cloud systems and software stacks (Kubernetes, MongoDB, etc.)
- Designed noise injection into the SRE incidents to further challenge AI SRE solutions with production cluster features
- Featured in Siebel News: <https://siebelschool.illinois.edu/news/sregym>

FleetCast – Satellite Operations Simulator (used by xLab)

- 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 and Helm for deployment on Kubernetes in xLab

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

TECHNICAL SKILLS

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