

Samarth Samal

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Education

University of Illinois Urbana-Champaign
Bachelor of Science in Chemical Engineering

Expected May 2027
GPA 3.13/4.00

Extracurriculars

Engineers Without Borders

Project Lead of the Rwanda Water Project

Champaign, IL

Aug. 2023-Present

- Led a team of 40+ engineers in designing a catchment system and water distribution pipeline to provide clean water access in rural Rwanda, including planning and fundraising for an assessment trip.
- Directed recruitment and onboarding of new members by presenting project initiatives and fostering engagement through education on key goals.
- Spearheaded fundraising campaigns, contributed to grant writing, and developed public presentations to secure financial and community support.
- Built strategic partnerships with mentors and NGOs to enhance project impact and ensure sustainable development through expert guidance.
- Visited the site in August 2025 to collect data, such as interviews from locals and land surveying, to begin work on the water catchment system

American Institute of Chemical Engineers

Board Member of Internal Relations

Champaign, IL

Aug. 2023-Present

- Part of the mentor/mentee program, in which advice on how to navigate classes of the major and the major in general was both given and received.
- Attend meetings and events to network with other chemical engineering students and companies.
- Help in planning events/pitching ideas to boost networking within the AIChE community.
- Organized the mentor/mentee program by creating pairings and asking for feedback on how the program was operating and if any changes were needed.
- Help in planning a welcome committee for potential future Chemical Engineers at the University of Illinois

IBLNKD

Member

Champaign, IL

Aug. 2023-Present

- Practiced and honed photo editing, modeling, and other skills related to photography.
 - Photos taken were edited and shared promptly, approximately a week after each shoot.
 - Participated in creating/envisioning outfits and working on poses for fashion shows or photoshoots
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Work Experience

Integrated Bioprocessing Research Laboratory

Fermentation Intern

Champaign, IL

May 2025-Present

- Supported supervisors in preparing media and processing samples during client fermentation batches, ensuring accuracy and adherence to protocols
- Performed routine maintenance on fermentation equipment, including applying steam tape to steam lines and replacing diaphragms on manifolds to ensure optimal functionality
- Monitored fermentation runs by conducting regular checks, recording operational data, and verifying that batch conditions met client specifications
- Gained hands-on knowledge of fermentation processes within vessels, with a focus on contamination prevention and maintaining sterile operating conditions

Red Lobster

Host/Server Assistant/Busboy

Chesterfield, MO

May 2022-Aug. 2023

- Greeted and seated guests, ensuring a welcoming and organized dining experience.
- Assisted servers by clearing tables promptly, ensuring efficient table turnover.
- Provided additional support to the serving team by delivering food and drinks, and occasionally taking orders during busy periods.

North Pointe Aquatic Center

Concession Stand Attendant

Ballwin, MO

May 2021-Sept. 2021

- Managed customer orders while preparing food items simultaneously, maintaining fast and efficient service.
 - Maintained cleanliness in the kitchen and dining areas, ensuring health and safety standards compliance.
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Skills

- **Leadership and Initiative:** Taking on leadership roles, spearheading projects, and demonstrating proactiveness in problem-solving.
- **Communication and Teamwork:** Effectively communicating ideas, collaborating with diverse groups, and contributing to grant writing efforts.
- **Laboratory Skills:** Mass Balancing, Titrations, Problem Solving, Chemical Synthesis and Analysis, NMR and IR Analysis
- **Technical Proficiency:** Applying chemical engineering knowledge to real-world projects, showcasing laboratory skills, and problem-solving abilities.
- **Organization and Time Management:** Managing multiple responsibilities, meeting deadlines, and demonstrating efficiency in project execution.