

Education

UNIVERSITY OF ROCHESTER

Rochester, New York

Bachelor of Science in Chemical Engineering

Anticipated May 2027

- Minor in Economics
 - 2.81 GPA - Deans list Fall 2025 and Spring 2026
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Engineering Experience

Research Experience

May 2026 to December 2026

- Agnes E. Thorarinsdottir, 40 hour weeks
- Iron and copper extraction from chalcopyrite using a leaching solution and electrodeposition
- Developed an app to calculate thermodynamic properties of fluids across broad temperature and pressure ranges.
- Developed a system that can run multiple trials of electrodeposition or cyclic voltammetry across a broad temperature range without a lab technician present.

Coursework Experience

- Built a solar heating water kettle in Introduction to Sustainable Energy to compete with the top solar heating water kettles on the market
 - Conducted experiments in Fluid Dynamics labs involving data collection, equipment calibration, and process troubleshooting. Applied Python for numerical analysis and process visualization
 - An experiment in Separation Processes with a distillation column to optimize the purity of an ethanol water separation by adjusting flow rates and reflux ratio
 - An experiment in Separation Processes with a membrane to find its effectiveness at filtering salt out of water at varying concentrations of salt in the water
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Work Experience

Mindset Volleyball Club

Niles, Illinois

Volleyball Coach

October 2021 to August 2025

Mindset Volleyball Club is a local volleyball club, specializing in coaching girls at the middle school and high school levels, that participates in regional and national tournament levels annually.

- Coached assorted teams of varied age groups for both the indoor club seasons and sand volleyball seasons
- Independently created and applied my own practice plans catering to my teams needs instead of just using the general practice plan provided by the director
- Further went above and beyond by filming tournament gameplay, uploading the film to YouTube, rewatching, recording and analyzing statistics for each individual player, and reviewing key moments with players before the start of practice

- Tracked and analyzed player performance data to identify trends and applied appropriate drills to address habits and patterns during subsequent practices
- Showcased strong leadership through filling in for other coaches at tournaments, quickly learning how best to communicate with these new players and winning with their teams
- Developed additional skills through coaching one-on-one lessons, small group lessons, orchestrating summer camps and leading training clinics
- Provided constant helpful and applicable adjustments for players, and noticed significant skill and attitude improvements

Eggspresso Breakfast & Lunch

Glenview, Illinois

Server

March 2025 to August 2025

Eggspresso Breakfast & Lunch is a local, family owned restaurant.

- Provided fast and effective service in a fast paced physical environment with a charming personality, warm smile and contagious sense of humor
- Became the most requested for server by repeat customers, and the server who netted the most in sales on a daily basis within the first three months of employment
- Identified bottlenecks and implemented workflow adjustments by exercising teamwork, preparation and delegation during high traffic rushes to maximize efficiency while maintaining high quality service
- Exercised teamwork and leadership through collaboration and delegation with other servers during high traffic rushes to maximize service efficiency
- Communicated quickly and effectively with kitchen when complicated orders came in or mistakes occurred
- Additional responsibilities included: greeting customers, taking orders, carrying trays, serving food and drinks, bussing tables, completing side work in the kitchen, both opening and closing the restaurant, and processing sales through POS system

Niles Park District

Niles, Illinois

Volleyball Coach

June 2022 to August 2023

Niles Park District is a local park district that has volleyball co-ed volleyball summer camp programs for late elementary school children and middle school children.

- Provided constant helpful and applicable adjustments for players, and noticed significant skill and attitude improvements

How About Learning

Northbrook, Illinois

Store Clerk

May 2022 to August 2022

How About Learning is a local K-12 tutoring center that additionally sells educational games, hosts local events, and is very involved with the Northbrook community.

- Main responsibilities included warmly assisting customers, managing sales and cleaning both the interior and exterior of the building
 - Additionally maintained upkeep of online presence as well as creating promotional advertisements for social media
 - Managed inventory through restocking products, handling shipments, updating pricing and stock count to online inventory
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Selected (Engineering) Coursework and Projects

ChemE Coursework:

Separations Processes	Chemical Reactor Design	Thermodynamics I & II
ChE Process Controls	Heat & Mass Transfer	Numerical Methods & Statistics
Chemical Process Analysis	Fluid Dynamics	Introduction to Sustainable Energy
Chemical Engineering Practice	Lab in ChE Principles	ChE Senior Design Lab
ChE Process Design & Simulation		

Other STEM Coursework:

Calculus I & II	Differential Equations & Linear Algebra	Multivariable Calculus
Chemical Concepts I & II	Organic Chemistry I & II	Organic Chemistry I & II Lab
Physical Chemistry	Mechanics	Mechanics Lab
Electricity and Magnetism	Electricity and Magnetism Lab	

Economics Coursework:

Introduction to Economics	Intermediate Microeconomics	Macroeconomics
Econometrics	Environmental Economics	Game Theory

Other Coursework:

Art in the Digital Age	Communicating Your Professional Identity	Intro to the Art of Film
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Campus Activities and Leadership

UNIVERSITY OF ROCHESTER

Rochester, New York

Men's Ultimate Frisbee Team

August 2023 to Present

- Team member
- Learned how to effectively communicate and play with over 100 different teammates
- Responsible for recruiting new members to the team
- Traveled to participate in tournaments all over the American Northeast
- Practiced two hours per day, three times per week

Chabad at the University of Rochester

February 2023 to Present

- Executive board member: May 2024 to Present
- Planned and set up holiday events, shabbat dinners, and campus pop ups
- Presented personally written speeches in front of over 200 students at shabbat dinners
- Spread awareness of Chabad's presence through social media (instagram and fizz), flyers across campus and through campus tunnel system, and actively sought out Jewish students who had not heard of Chabad before
- Provided a warm and welcoming space for Jewish students on campus to come to on a regular basis

American Institute of Chemical Engineers(AIChE)

August 2022 to Present

- Participated in process safety trainings
- Toured factories and power plants to see first hand how they operate
- Met several keynote speakers and connected with other chemical engineers

- Attended regional and national events to better understand how chemical engineer intersects with the real world

Spike Ball Club**January 2023 to May 2024**

- Team member
 - Traveled to participate in tournaments all over the greater New York area
 - Practiced two hours per day, two times per week
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Soft Skills

- Analytical thinker and hands-on problem solver, both independently and as part of a team
- Strong passion for understanding energy based chemical reactions
- Natural leader with phenomenal people skills
- Adaptable learner who thrives in fast-paced, hands-on settings
- Friendly, ambitious, and energetic team player that demonstrates effort and prioritizes collaboration
- Outstanding oral and written communication skills demonstrated in both technical and non technical settings
- Strong communication and teamwork skills developed through collaborative environments

Technical Skills

- Intermediate programming and data analysis skills in Python, Java and Excel
- Knowledge on process control, flow diagrams, and process analysis
- Experience with laboratory equipment and instrumentation, including: extruder, distillation column, membrane, heat exchanger, rheometer, and centrifuge
- Basic and organic chemistry laboratory techniques, including NMR/IR/UV-VIS spectroscopy, gas and thin-layer chromatography, and crystallization