

CHARMAINE GUO

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EDUCATION

Northwestern University
B.S. in Materials Science & Engineering
Overall GPA: 3.25/4.00

June 2028

SKILLS

Computer Languages	Python, Java, MATLAB, HTML, CSS
Soft Skills	Project Management, Teamwork, Time-Management, Adaptability
Hard Skills	Lab Safety, Capillary Rheometer, SEM, Spectrometer, ICP
Organizational Tools	Microsoft Excel, Google Drive

EXPERIENCE

Undergraduate Researcher Northwestern University	October 2024 - Present Evanston, IL
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- Collaborating with a PhD candidate on cellulose crystalline research, focusing on color formation without dyes.
- Studying how UV light cures acrylic acid, solidifying cellulose crystals and creating structural colors
- Analyzing using MATLAB how varying cellulose concentrations affect crystal arrangements and resulting colors.

Swim Instructor Northwestern University	October 2024 - Present Evanston, IL
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- Coordinating and scheduling private swim lessons to accommodate individual needs and availability.
- Maintaining participant progress by offering regular feedback and technique suggestions.
- Leading 8 group swim classes per week for over 30 participants.

Swim Instructor British Swim School	June 2024 - Present Wayland, MA
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- Customizing instruction strategies based on knowledgeable evaluations of students' abilities.
- Improving students' abilities by demonstrating techniques in an easily understood manner.
- Maintaining participant progress by offering regular feedback and technique suggestions.
- Leading 16 swim classes per week for over 60 total participants.

CERTIFICATIONS

StarGuard Lifeguard Competency Assessment & Performance Record	Aug 2024-Aug 2025 ID: 189562
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- Trained up to 12 ft.

EXTRACURRICULAR ACTIVITIES

Power Distribution Management Northwestern Formula SAE (NUFSAE)	October 2024 – Present
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- Working on the electrical systems team to design the back box harness and build the top hoop harness.
- Collaborating with the accumulator team to design the low voltage battery box.
- Learning and applying software like Altium, SolidWorks, and RapidHarness.

Finance Lead Society of Asian Scientists and Engineers (SASE)	January 2025 – Present
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- Organizing fundraisers and managing financial operations, budgeting, and expense tracking.
- Writing grants and collaborating with the club to ensure efficient financial planning and resource allocation.