Lucy Yang

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Education

University of Rochester — Rochester, NY
M.S. in Computer Science — *Anticipated May 2026*
B.S. in Computer Science, Minor in Statistics — *May 2025*
- **Awards:** Dean's List Scholar, Joseph C. Wilson "Leader of Change," Research and Innovation Grant
- **Leadership:** Sigma Psi Zeta Sorority, Inc. (Vice-President), Google Developer Groups (Tech Lead)
- **Competitions:** 1st place in Productivity for Dandyhacks '24, Best Usage of Digital Ocean for Dandyhacks '25

Experience

Meta — Remote
Software Engineer (CWx @ Magnit) — *June 2025 – Present*
- Brought on to support the adoption and deployment of specialized research software, acclimating to both existing in-team processes and workflows, as well as company standards and tools, to make meaningful contributions.
- Built and modified large-scale codebases in C++ and Python, ranging from optimizing applications to developing cross-platform tools. Integrated a variety of hardware devices to existing code using APIs from external vendors.
- Performed testing/troubleshooting on lab devices and equipment, collaborating with my team to deliver solutions.

University of Rochester — Rochester, NY
Research Assistant — *October 2024 – May 2025*
- Enhanced software for multi-spectral image processing under the Lazarus Project for preserving cultural heritage.
- Developed a Python GUI for image quality assessment, enabling users to evaluate sections of multi-spectral images, as well as tag regions of interest to save as metadata for processing with machine learning.
- Implemented an image database system, integrating distributed databases to manage 12+ TB of image data for optimized storage, retrieval, and metadata management.

National Institute of Environmental Health Sciences — Durham, NC
Researcher — *May – August 2024*
- Led updates to electroencephalography analysis software (SSAVE), using R and Python (MNE-Python, pandas, numpy, matplotlib) to streamline sleep EEG data analysis at scale from over 5,000 study participants.
- Expanded functionality by designing and implementing additional analysis and visualization tools to software: EEG power and spindle feature extraction, and ability to change frequency band displayed for each EEG feature.
- Refreshed the GUI using Python (Tkinter) to support a horizontal layout and a more intuitive user experience.

Brightview Robotics, LLC — Rochester, NY
Software Developer — *December 2022 – May 2024*
- Contracted for Meta to aid with software related to eye motion, including developing applications for tracking retinal images and recording X-Y motion of simulated eye movement in preparation for real-time capture.
- Designed a C++ based MFC application and utilized APIs (National Instruments, CUDA) to control and log imaging system I/O data (video signal, light sources, etc.), enabling precise signal recording and control.

Texas A&M University (NSF: PATHS-UP) — College Station, TX
Research Intern — *May – August 2023*
- Collaborated with peers and scientists to advance research on diabetes by analyzing data from wearable sensors.
- Preprocessed data and analyzed temporal health data to assess the effects of the microbiome on glucose levels.
- Built ML models (XGBoost, Scikit-learn) for predictive insights. Utilized R to develop statistical regression models using personalized health metrics, improving 49% of models created using 1K+ sampled bacteria.

Technical Skills

Programming: C++, Java, Python, C, R, HTML/CSS, JavaScript, Kotlin, SAS, SQL, C#
Tools: Windows, Linux/UNIX, iOS, Git/GitHub, Microsoft Office, Google Suites, Android Studio, JMP, Unity, Canva
Languages: English (Native), Chinese – Mandarin (Limited Professional)