

Roma Bhattacharjee

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EDUCATION & ECs

PRINCETON UNIVERSITY

B.S.E. STUDENT | CLASS OF 2025 | GPA UW 3.9/4.0

Princeton, NJ

- ❖ **Major:** Computer Science (COS). **Minors:** Optimization and Quantitative Decision Science, Applied and Computational Mathematics, Statistics & Machine Learning
- ❖ **Relevant courses:** Adv. Vector Calc (MAT203), Adv. Linear Algebra w/ Applications (MAT204), Algorithms & Data Structures (COS226), Economics and Computing (COS445), Probability and Stochastic Systems, Fundamentals of Statistics, Adv. Physics (Mechanics), General Physics II, Macroeconomics
- ❖ Acting CTO & Lead SWE for The Daily Princetonian. TA for MAT203/204 & COS226. Member of: Prospect Student Ventures, Debate Panel, Women in Entrepreneurship

UNIVERSITY OF CHICAGO MASTERS PROGRAM IN COMPUTER SCIENCE (MPCS)

NON-DEGREE-SEEKING HIGH SCHOOL STUDENT |

2019–2021

Chicago, IL

- ❖ Courses: iOS Application Development (Grade: A); Algorithms (Grade: A); Intro to Software Engineering (Grade: A)

UNIVERSITY OF CHICAGO LABORATORY SCHOOLS

HIGH SCHOOL DIPLOMA |
CLASS OF 2021 | GPA UW
4.0/4.0

Chicago, IL

- ❖ Awards: Brian Swan award for AT Physics I, Achievement in CS, Eunice H. McGuire Excellence in Writing (finalist).

MUSIC

- ❖ Piano—completed all 12 levels of Achievement in Music (AIM) program.

APTITUDE & SKILLS

STANDARDIZED TEST SCORES & AWARDS

SAT 1590/1600 [Aug '20] • ACT 36/36 [Dec '19] • National Merit Scholarship 2021 Finalist: 224/226 • 2021 Semifinalist for U.S. Presidential Scholars Program • SAT Math 2: 800 • SAT Physics: 790

SOFTWARE SKILL SETS

MacOS • Windows • Linux/Unix • C/C++ • Java • Python • Bash • TypeScript • Swift • React • Node.js • LaTeX • SQL • NumPy + Pandas • MATLAB • R • Fusion360 • Blender • Flask • PyQt5 • PyTorch • AWS • Kafka • InfluxDB • Grafana • Docker

EXPERIENCE

ALTAMONT CAPITAL PARTNERS [\[link\]](#)

(UPCOMING) SOPHOMORE SUMMER ANALYST | Jun 2023–Aug 2023 | San Francisco, CA

- ❖ Will be working with one of Altamont's private equity portfolio companies in strategy and analysis.

D.E. SHAW DISCOVERY FELLOWSHIP [\[link\]](#)

NOMINATED STUDENT | Aug 2022 | New York, NY

- ❖ Selective three-day program for a small group of sophomore-year undergraduate women. Invited to D.E. Shaw's headquarters to learn about the intersection of finance and technology through interactive case studies and seminars.

CME GROUP [\[link\]](#)

INTERN – PRODUCTION ENGINEERING TEAM | May 2022–Aug 2022 | Chicago, IL

- ❖ Implemented Robot Framework to automate end-to-end execution of MiFID report generation, kicking off a multi-year project to replace existing test framework.
- ❖ This included building an order entry library in Python to communicate with Globex—CME's electronic trading system—via Simple Binary Encoding (SBE).

STARTUP – STEALTH MODE

SWE – CORE TEAM | May 2022–May 2023 | Remote

- ❖ Application build-out for a product for the Construction & Engineering Industry.

ARTIFICIAL INTELLIGENCE FOR 3D DATA – UCHICAGO 3DL [\[link\]](#)

RESEARCH INTERN | June 2022–Oct 2022 | Chicago, IL

- ❖ Worked with Assistant Prof Rana Hanocka at 3DL (researches deep learning methods applied to 3D computer graphics/vision). Aided development of an extension to the [Text2Mesh](#) project.

APPLIED AI/ML AT UCHICAGO SAND LAB [\[link\]](#)

SUMMER RESEARCH ASSISTANT | Jun 2021–Aug 2021 | Chicago, IL

- ❖ Worked with Professor Ben Y. Zhao and Emily Wenger at the University of Chicago [SAND Lab](#) through the Data Science Institute (DSI) Summer Lab program.
- ❖ Conducted research on physical backdoor attacks in computer vision models. Developed automatic graph analysis techniques to uncover viable triggers in pre-existing datasets. Co-first author on [paper](#), accepted to NeurIPS 2022 dataset track.

COMPUTER-AIDED DIAGNOSIS: UCHICAGO GIGER LAB ML/AI [\[link\]](#)

RESEARCH ASSISTANT | Jun 2020–Jun 2021 | Chicago, IL

- ❖ Worked with Dr. Maryellen Giger, to compare abbreviated/ultrafast breast MRI lesion segmentation methods, including segmentation via convolutional neural networks.
- ❖ First author of research abstract accepted to Optics & Photonics organization SPIE's Medical Imaging Conference, Feb 2021—delivered an [oral presentation](#).

CITADEL [\[link\]](#)

INTERN – EQUITIES DATA ENGINEERING TEAM | Jun 2019 – Aug 2019 | Chicago, IL

- ❖ Built usage-tracking architecture and ETL process “milestone” dashboard with Kafka, InfluxDB
- ❖ Evaluation/feedback from my manager: “*What makes Roma stand out is her willingness to take on something unknown and her ability to learn it through doing research ... and build that knowledge without hesitation. [This] will make her an exceptional engineer in the future.*”