

# Roma Bhattacharjee

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## EDUCATION & ECs

### PRINCETON UNIVERSITY

B.S.E. 2025 (SUMMA CUM LAUDE) | GPA 3.9/4.0

- ❖ **Major:** Computer Science (COS). **Minors:** Optimization and Quantitative Decision Science, Applied and Computational Mathematics
- ❖ **Outstanding Computer Science Senior Thesis Prize**
- ❖ **Societies:** Phi Beta Kappa, Tau Beta Pi, Sigma Xi
- ❖ **Relevant courses:** RL, NLP, Distributed Systems, Economics and Computing, Probability and Stochastic Systems, DSA, Statistics, Macroeconomics
- ❖ **CTO** of The Daily Princetonian. **TA** for MAT203/204, COS226, COS240. **Member of:** Prospect Student Ventures, Debate Panel.

### OXFORD UNIVERSITY

HILARY AND TRINITY TERMS | SPRING 2024

- ❖ Tutorial-style CS/math courses.
- ❖ **Courses:** Geometric Deep Learning, Quantum Information, Computer Vision, Computer Security

### UNIVERSITY OF CHICAGO MASTERS PROGRAM IN COMPUTER SCIENCE (MPCS)

DURING HIGH SCHOOL | 2019–21 | Chicago, IL

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

### UNIVERSITY OF CHICAGO LABORATORY SCHOOLS

HIGH SCHOOL DIPLOMA | 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).
- ❖ **Exec Board** of Student Council, Varsity Volleyball (co-captain), Artsfest Board

## APTITUDE & SKILLS

### STANDARDIZED TEST SCORES & AWARDS

GMAT FE: 715 [Mar '25] • SAT 1590/1600 [Aug '20] • ACT 36/36 [Dec '19] • 2021 Finalist, National Merit Scholar: 224/226 • 2021 Semifinalist, U.S. Presidential Scholars Program

### SOFTWARE SKILL SETS

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

**BLOOMBERG** • Completed “Bloomberg Market Concepts” course

**MUSIC** • Piano—12 levels of Achievement in Music (AIM) program • Trombone.

## EXPERIENCE

### CITADEL [\[link\]](#)

FULL-TIME – SWE (EQUITIES) | Jul 2025– | New York, NY

INTERN – SWE | Jun 2024–Aug 2024 | New York, NY

- ❖ Own resilient systems on the Equities Engineering Trading team, supporting core end-to-end trading workflows with strict correctness and reliability constraints.
- ❖ Partner with business stakeholders to translate workflow requirements into robust software.

### PRINCETON VISION & LEARNING LAB [\[link\]](#)

UNDERGRADUATE RESEARCHER | January 2024–May 2025 | Princeton, NJ

- ❖ Worked with Professor Jia Deng and Erich Liang on 3D computer vision and graphics.
- ❖ Senior thesis introduced a novel benchmark for predicting per-frame camera intrinsics to enable applying 3D computer vision methods to in-the-wild videos.
- ❖ Co-second author on [paper](#), accepted to NeurIPS dataset track (2025).

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

SUMMER STRATEGY ANALYST | Jun 2023–Aug 2023 | San Francisco, CA

- ❖ Drove strategic analysis for a portfolio company, identifying post-M&A synergy opportunities.

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

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

- ❖ Launched Robot Framework-based automation for end-to-end MiFID report generation, initiating a multi-year platform migration; built a Python order-entry library interfacing with CME Globex for test and validation workflows.

### BOREDM (STARTUP) [\[link\]](#)

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

- ❖ Built core product features for a construction and engineering platform. Now adopted by 20+ U.S. state DOTs.

### 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 (DSI SUMMER LAB) | Jun 2021–Aug 2021 | Chicago, IL

- ❖ Worked with Professor Ben Y. Zhao and Emily Wenger at the University of Chicago [SAND Lab](#).
- ❖ Researched physical backdoor attacks in computer vision models; developed automated graph-analysis methods to identify viable triggers.
- ❖ Co-first author on [paper](#) accepted to NeurIPS dataset track (2022).

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

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

- ❖ Worked with Dr. Maryellen Giger. Evaluated CNN-based segmentation methods for abbreviated and ultrafast breast MRI.
- ❖ Co-first author, [published](#) in Journal of Medical Imaging (2023); first author on SPIE Medical Imaging [oral presentation](#) (2021).