Roma Bhattacharjee

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EDUCATION & ECs

PRINCETON UNIVERSITY

B.S.E. Student | Class of 2025 | GPA 3.9/4.0

- **Major**: Computer Science (COS). **Minors**: Optimization and Quantitative Decision Science, Applied and Computational Mathematics
- **Tau Beta Pi** junior electee.
- **Relevant courses**: NLP, RL, 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, Women in Entrepreneurship.

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 – Incoming SWE (Equities) | Jul 2025– | New York, NY

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

- Will be working with the Equities Technology team.

PRINCETON VISION & LEARNING LAB [link]

Undergraduate Researcher | January 2024– | Princeton, NJ

- Working with Professor Jia Deng and Erich Liang on 3D computer vision and graphics.
- Writing undergraduate senior thesis on novel benchmark for predicting per-frame camera intrinsics to enable applying 3D computer vision methods to in-the-wild videos.

ALTAMONT CAPITAL PARTNERS [link]

Summer Strategy Analyst | Jun 2023–Aug 2023 | San Francisco, CA

- Worked with one of Altamont's private equity portfolio companies in strategy and analysis.

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 framework. This included building an order entry library in Python to interact with Globex—CME's ETS—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. VC-backed.

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.
- 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.
- Co-first author of paper published in Journal of Medical Imaging, Nov 2023. First author of abstract accepted to SPIE's Medical Imaging Conference, Feb 2021—gave 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.