

Arunabh A. Sarkar

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EDUCATION

- Cornell University** | Bachelor of Science Computing and Information Science Expected May 2024
- Relevant Coursework: Practical Tools for Operations Research, Machine Learning, and Data Science, Data Structures, Discrete Structures, Probability Models, Networks Crowds and Markets, Applied Statistics, Design and Programming for the Web
- The University of Utah** | Bachelor of Science Computer Science Transferred June 2021
- Relevant Coursework: Object-Oriented Programming, Engineering Calculus, Engineering Physics, Microeconomics

EXPERIENCE

- Venture Capital Team Lead** September 2021 - Present
Cornell Blockchain | Ithaca, NY
- Spearheaded the VC team by onboarding and educating **9 analysts** about startup valuation, market sizing, due diligence, go-to-market strategy consulting and creating project and recruitment pipelines to multiple Fortune 500 companies for students to gain experience.
 - Raised **100,000 USD+** from sponsors, like EY and FTX, to host the Cornell Blockchain Conference for **200+** industry individuals.
- Summer Analyst** June 2022 - Present
Galaxy | New York, NY
- Built an internal application to track MEV, identifying **13 data trends**, including arbitrage profits, transaction loss, protocol splits, etc.
 - Published **3 technical reports** covering the evolution of derivatives in DeFi and theoretical derivatives products, highlighting **4 activation risks** associated with the Ethereum Merge, and explaining mathematics underlying Zero-Knowledge Proofs (ZKPs).
- Research Assistant** August 2022 - Present
Cornell Dyson School of Applied Economics and Management | Ithaca, NY
- Research listing quality of **1MM+ e-commerce products** using machine learning algorithms like KNN and multivariable regression.
- Teaching Assistant** August 2022 - Present
Cornell SC Johnson College of Business | Ithaca, NY
- Assist professors in teaching **60+ students** on startup creation by holding office hours grading projects, and holding review sessions.
- Adjunct Blockchain Bootcamp Instructor** July 2022 - August 2022
New York City College of Technology | Brooklyn, NY
- Taught a 6-week bootcamp on the fundamentals of blockchain technology, NFTs, digital assets, and DeFi to **50+ students**.
- Trading Infrastructure Engineer Intern** June 2021 - December 2021
Tribunal Capital LLC | San Francisco, CA
- Researched and optimized a circular arbitrage trading strategy by using a Bellman-Ford Algorithm and SPFA upgrade for Tribunal's Algorithmic Liquidity Fund, decreasing runtime **~54 percent** and maximizing strategy returns by **~20 percent**.
- Adjunct Speech and Debate Instructor** July 2020 - September 2021
Rowland Hall-St. Marks School | Salt Lake City, UT
- Coached students on public speaking and argumentation resulting in placement amongst the **top 3 percent** of debaters in the world.

PROJECTS

- Breaking Down the Grandmaster's Strategy: An Analysis of the Game of Chess** March 2022 - May 2022
ORIE 3120: Practical Tools for Operations Research, Machine Learning, and Data Science | Python, SQL, Tableau
- Spearheaded a machine learning-based research project by analyzing a dataset of **20,000 chess games** to predict the length of chess matches using multiple linear regression with **71.7% accuracy** and statistically significant results.
- aroMap: Smell Anytime, Anywhere** April 2022 - May 2022
INFO 1998: Trends in Web Development | Typescript, Javascript, HTML/CSS, NextJS, Firebase
- Developed a NextJS web application allowing users to register using Firebase authentication and locate **20,000 smells** in any area.
 - Conducted **3 iterations of user testing** to enhance UI and UX components and improve signifiers and mapping for users.
- GigLock: The Next Generation of Bike Security** January 2022 - May 2022
NBA 3000: Designing New Ventures | Microsoft Office (Excel, PowerPoint), Figma
- Led a team of **4 entrepreneurs** as **Product Lead** to conduct customer discovery through **30+ customer interviews**, formulate a business thesis to pitch to VCs, identify **3 customer segments**, and develop a smart anti-rotation bike lock for the e-bike market.
- Sudoku Solver: Solve Any Sudoku Puzzle, Algorithmically** April 2022
Personal Project | Python
- Developed a recursive Sudoku solving algorithm in Python to solve **5x faster** than traditional brute force using backtracking.
 - Utilized a REST API and JSON scripting to randomly generate and solve puzzles of **3 distinct difficulties**.

SKILLS AND HOBBIES

Python | Java | SQL | JavaScript/TypeScript | Solidity | R | HTML/CSS | Tableau | Microsoft Office | Public Speaking | Sudoku | DJing