

PRATHAM S. RAWAT

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EDUCATION:

Cornell University – Ithaca, NY *Expected Aug. 2021 – May 2024*
GPA: 3.57 | B.S. in Information Science with a Concentration in Data Science, Minor in Mathematics
Courses: Computational Mathematics, Probability, Computational Algebra, Algorithms, Machine Learning, Stochastic Processes, Numerical Analysis, Networks
Transferred Fall 2021 from Stony Brook University, studied Computer Science and Applied Mathematics

Stuyvesant High School – New York, NY *Class of 2020*
Led team of 100+ as President of Software Engineering on Stuyvesant Robotics Team

WORK EXPERIENCE:

Bloomberg LP – New York, NY *June 2022 – Aug. 2022*
Software Engineer Intern (Trading & Analytics Dept.)

- Implement production-deployed features for equities, futures, and options traders on the EMSX product.
- Design and build robust and scalable regression testing infrastructure for production deployments of EMSX.
- Optimize rollout of updated codebase to clients using business intelligence metrics.
- Discuss code architecture and design changes to product backend for decreased latency, increased readability.

Fidelity Investments – Remote *June 2021 – Aug. 2021*
Software Engineer Intern (Application Security Team)

- Built data analytics tools and automations that significantly helped managers quantify team productivity
- Researched software products to strengthen Fidelity's credential management and secure products further
- Presented research findings in a slide deck and demoed code projects to senior level management teams

Cryptonomic – Brooklyn, NY *July 2019 – May 2021*
Software Engineer Intern

- Led project design and development for blockchain backed financial services and online marketplaces
- Optimized SQL queries to bring significant performance improvements to data intensive API endpoints
- Authored efficient and scalable smart contracts to back NFT and Credential-Management projects
- Automated containerized blockchain infrastructure to simplify developments on rapidly updating networks

EXTRACURRICULAR SCHOOL EXPERIENCE:

Cornell University FinTech Research Fellowship – Ithaca, NY *Sept 2021 – Present*
Undergraduate Research Assistant

- Apply pretrained NLP models to tweets to understand changes in business strategy and popular sentiment.
- Optimize web-scraping algorithms using parallelization to increase efficiency by at least 10x.

Cornell Data Science – Ithaca, NY *Sept 2021 – Present*
Algorithmic Trading Team Member

- Implement market sentiment analysis using deep neural networks and Google Trends data to predict option IV.
- Research and implement GARCH and Monte-Carlo pricing models for implied volatility forecasting.

PERSONAL PROJECTS:

Cryptocurrency Arbitrage Bot

- Use decentralized exchanges and algorithmic stablecoins to profit from market inefficiencies
- Build mathematical models to execute profitable trading strategies

TECHNICAL SKILLS:

Proficient: Java, JavaScript/TypeScript, C, Python, Docker/docker-compose, Solidity, react (native/redux)
Familiar: C++, SQL, Google API, Scala, OCaml, R, Swift, AWS