Pratham S. Rawat

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Education:

Cornell University – Ithaca, NY   *Expected Aug. 2021 – May 2024*

B.S. in Information Science with a Concentration in Data Science, Minor in Mathematics
Courses: Computational Mathematics, Basic Probability, Computational Algebra, Introduction to Data Science
Transferred Fall 2021 from Stony Brook University, studied Computer Science and Applied Mathematics

Stuyvesant High School – New York, NY   *Class of 2020*

Study: Focused on Computer Science coursework, Advanced Regents Diploma, Stuyvesant Robotics
Courses: Systems Level Programming, Software Development, Artificial Intelligence

Work Experience:

Bloomberg LP – New York, NY   *June 2022 – Aug. 2022*
Software Engineer Intern (Trading & Analytics Team)
- Incoming summer internship in the Trading & Analytics team.

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
- Participated in weekly team-wide meetings, learned to develop software with security in mind
- Presented research findings in a slide deck and demoed code projects to senior level management teams
- Exceled in a fast paced, Agile/Kanban, corporate environment in multinational company

Cryptonomic – Brooklyn, NY
Software Engineer Intern   *July 2019 – May 2021*
- 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
- Coordinated with offshore employees and contractors on different software projects and UI/UX design

School Experience:

Cornell University FinTech Research Fellowship – Ithaca, NY
Undergraduate Research Assistant   *Sept 2021 – Present*
- Apply NLP to Twitter data to understand changes in business strategy and popular sentiment.

Cornell Data Science – Ithaca, NY
Algorithmic Trading Team Member   *Sept 2021 – Present*
- Research and build computational models to predict pricing and movement of various financial securities.
- Discuss the benefits and drawbacks of different modeling techniques for different financial instruments.

Personal Projects:

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

Stock Market Direction Forecasting using Google Trends
- Design and train neural networks in TensorFlow to predict intraday S&P 500 (ticker: SPY) movement

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