

Permanent Address

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Amar Singh

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Current Address

110 Stadium Road Apt. 27
Charlottesville, VA 22903

EDUCATION**University of Virginia**

Majors: Mathematics, Computer Science
Echols Scholar in the Honors College

August 2015-May 2019

SAT Score: 2300

Relevant Math Coursework: Advanced Linear Algebra, Abstract Algebra, Multivariable Calculus, Probability, Regression Analysis (Predictive Modeling), Applied Linear Models, Ordinary Differential Equations

Relevant Computer Science Coursework: Data Representation in C++, Quantum Computing I, Algorithms, Internet Scale Applications, Data Analytics in Python, Software Programming in Java, Machine Learning

RELEVANT EXPERIENCE**Hyperledger Foundation**, New York City, NY

May 2018-August 2018

Intern

- Construct off-chain dispute resolution frameworks for the Hyperledger Fabric permissioned blockchain framework
- Built a full-stack application to manage contracts in the UK Construction Industry on the Hyperledger Fabric blockchain

Blockmatics, New York City, NY

May 2018-August 2018

Intern

- Built blockchain developer courses to facilitate community onboarding for Hyperledger, Ethereum, and Corda
- Designed a blockchain course for UVA Computer Science majors that I will be teaching in the Fall 2018 semester

UVA Cryptography Research, Charlottesville, VA

September 2017-May 2018

Researcher

- Analyzed the security of modern blockchain consensus protocols with Professor David Evans

Fitch Ratings, New York City, NY

June 2017-August 2017

Intern, Credit Rating Agency

- Identified upstream oil and natural gas companies at risk of default during the 2018-2019 credit refinancing window
- Analyzed the correlation of the underlying leveraged loans for New Deal CLOs in order to assess default risk

LCR Capital Partners, Westport, CT

July 2016-August 2016

Intern, Private Equity

- Presented pitches recommending investments in premium muni bonds (based on low rate environment), senior tranches of CLOs (based on high yield spreads relative to similarly rated corporate debt), and aircraft ABS (based on low default rates)

Federal Reserve Challenge, Charlottesville, VA

January 2016-December 2017

Captain, Undergraduate Economics Team

- Led UVA's Federal Reserve Challenge Team to win the 2016 Virginia Regional Competition (October 30, 2016)
- Collaborated on a presentation to the FOMC recommending an increase in the fed funds target range by 0.25% in December based on increasing sticky prices, a fall in the HY/10yr spread, consistently low NFPs, and a slight uptick in Q3 GDP estimates
- Integrated speeches by Governor Lael Brainard and Former Vice Chairman Stanley Fischer to show that a shift in demographics contributed to the flattening of the Phillips Curve (the inverse relationship between unemployment and inflation)

OTHER EXPERIENCE**HackUVA 2018**, Charlottesville, VA

March 2018

Hacker, New Terrain Team

- Won Best Blockchain Project and 3rd Place (Category: Solving Inequality)
- Built a decentralized title management system for Puerto Rico (used Solidity, React, Truffle)

UVA Stock Pitch Competition, Charlottesville, VA

June 2016-July 2016

Winner

- Achieved 1st place in the competition by pitching a short position on Valero Energy (VLO)
- Pitch based on the following macro trends: the narrowing of the Gulf Coast 321 crack spread (to which VLO maintained high exposure), VLO's increased CAPEX over the previous 6-8 months, and VLO's decreasing refining margins

London School of Economics, London, England

June 2016-July 2016

Study Abroad

- Studied Alternative Investments (Commodities, Derivatives, LBOs, MBSs, and REITs) in FM 230 Finance Class

OTHER SKILLS, & INTERESTS

Software & PL Experience: Docker, Kubernetes, OpenShift, Golang, Python, Rust, C++, Javascript, React/Redux, GraphQL,

Interests: Chess, Construction, Basketball, Soccer, Blockchain, Lincoln-Douglas Debate