**Aarij Rehman**

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**EDUCATION**

**Northwestern University Sep 2017 – Jun 2021**

*B.S. Industrial Engineering & M.S. Computer Science – BS/MS Program Evanston, IL*

* B.S. GPA – 3.65; M.S. GPA – 4.0
* Graduating with a B.S. in Industrial Engineering and an M.S. in Computer Science
* Relevant Coursework: Computer Systems, Systems Security, Computer Networking, Algorithm Design, AI, Data Science and Analytics, Optimization

**WORK EXPERIENCE**

**J.P. Morgan July 2020 – August 2020**

*Interest Rate Options Analyst NYC, New York (Remote)*

* Worked as a summer intern for the swaptions desk
* Analyzed realized volatility for swap quotes surrounding economic events over the last 10 years
* Predicted 30 Year Swap Spreads based on outcomes of a Treasury Refunding Announcement
* Built a model for the algo desk that analyzed hit ratios based on quotes’ distances from Bloomberg mid-prices

**Computer Science 214: Data Structures and Data Management April 2020 – June 2020**

*Undergrad Teaching Assistant Evanston, IL*

* Worked with course staff to facilitate the teaching of data structures
* Held weekly office hours where students came in for help with coding assignments, homeworks, and theory
* Graded and provided feedback on assignments every week

**TD Ameritrade June 2019 – August 2019**

*Active Trader Internship Chicago, IL*

* Automated processes involving employees’ bonus structures saving managers over 20 hours per quarter
* Won 1st and 2nd in firm-wide Ideation Challenge presenting directly to CEO and EVP
* Helped rework options education platform to better explain option fundamentals: Taught novice investors how to use Greeks, Put/Call Parity, Payoff Diagrams, Implied Volatility, and implement Trading Spreads/Strategies

**PROJECTS**

**Bluetooth-Enabled Wi-Fi Monitor (C Language) January 2021 – March 2021**

* Built a system of devices which monitors a Wi-Fi network and communicates information over Bluetooth Advertisements
* Enabled Wi-Fi connectivity for Nordic Microcontrollers using ESP Wi-Fi modules
* Designed a central-peripheral communication scheme where Wi-Fi metrics are requested over Bluetooth by a central and measured on demand by 2+ peripherals

**Denver Public Schools Vehicle Routing (Python) April 2020 – June 2020**

* Routed vehicles used to deliver students’ lunches for the DPS school district
* Reduced the number of vehicles necessary from 11 to 9 using a modified Clarke-Wright Savings algorithm
* Delivered a tool that allows the client to randomly generate feasible routes given any set of sites

**SKILLS & INTERESTS**

**Software/Skills:** Python, C, Ruby, Bash, Assembly, SQL, Bloomberg, LaTeX

**Interests:** Poker, Home Improvement, Chess