Taha Shaikh

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Permanent Address
5613 Olde Hartley Way
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Temporary Address
1310 Henry Lane, Apt 1411G
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EDUCATION

Virginia Polytechnic Institute and State University (Virginia Tech)   **Blacksburg, VA**
Primary Major: Computer Engineering – *Machine Learning*   *May 2023*
Secondary Major: Mathematics – *Applied Computational Math*
Cumulative GPA: 3.50 / 4.00, In Major GPA: **3.50 / 4.00,** Dean's List (all semesters), Calhoun Discovery Program Scholar

Commodity Investing by Students (COINS)
Junior Analyst   *September 2021 – Present*
- Assist in investing up to $1M on behalf of the Virginia Tech Foundation for the nation's only student-run commodity trading group diversified in futures-based ETFs and ETNs.
- Make buy and sell trade recommendations using strong technical and fundamental analysis, regression analysis, and critical thinking skills garnered during targeted training and real-world trading experience.
- Interfaced cross-functionally, while conducting research, deriving data analysis, producing reports, and presenting research findings for continuous improvement and margin optimization.

SKILLS AND CERTIFICATIONS

- Programming: Wolfram Mathematica, Python, C++, Matlab, HTML/CSS, LaTeX, Java
- Software: Microsoft Office Suite, Linux Multimedia Studio, GNU Image Manipulation Program, Visual Studio

EXPERIENCE

MITRE Corporation   **McLean, Virginia**
ISR Cloud Engineer Intern   *May 2021 – August 2021*
- Developed a decentralized data storage and cloud computing service for the NGA using an Ethereum blockchain network hosted on AWS outposts
- Presented project idea to NGA and DoD department heads for use in mission operations at the edge

Ithena   **Innsbrook, Virginia**
Data Engineering Intern   *May 2020 – August 2020*
- Analyzed thermal camera data to prevent the spread of COVID-19 in an office setting and created visualizations for contact tracing
- Developed communication protocols for IoT devices using MQTT

RESEARCH

Hume Center Workforce Development Program   **Blacksburg, Virginia**
Research Intern   *Sep 2020 – May 2021*
- Collaborated with MITRE and the Hume Center at Virginia Tech to design maritime remote sensing and machine learning applications for Naval and Central Intelligence
- Worked under the guidance of Dr. Justin Kauffman and Mr. Scott Welch

PROJECTS

IoT Smart Warehouses   **Blacksburg, Virginia**
Engineering Design Lead   *Jan 2021 – May 2021*
- Created an algorithm to optimize warehouse truck to dock selection based on machine learning and image classification
- Presented concept and prototype to industry professionals from Boeing and General Engineering on behalf of Calhoun Discovery Program

HONORS AND AWARDS

- Calhoun Discovery Program (full merit scholarship + $10,000 experiential learning grant)
- International Finalist in COMAP Mathematical Contest in Modeling (top 1.5% of teams globally)
- Exhibition in International Bridges Math-Art Conference
- National Piano Guild Advanced Bach Award (of 16 nationally)