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# PROFESSIONAL SUMMARY

**Data Analyst** and **Mathematical Expert** with over 9 years of experience in complex **financial modeling, cybersecurity**, and strategic **data-driven decision making**. Strong foundation in **mathematics** backed by a Master of Science in Mathematics from the University of Colorado. Skilled in developing **predictive** **models**, **data** **analysis**, and leveraging advanced **statistical** **techniques** to drive business solutions. Demonstrated proficiency in **real-time bond valuation**, **network hardening**, and **threat mitigation**. Military veteran with a **top-secret security clearance**, recognized for leading **cross-functional teams** in high-pressure environments. Awarded for excellence in service and outstanding performance. Well-versed **in Python, C++**, and other **data analysis tools**, with a deep understanding of **financial** **systems** and **cyber** **analytics**. Seeking roles in **machine** **learning** and **AI** to further apply **quantitative** **analysis** skills and contribute to innovative solutions.

# TECHNICAL & PROFESSIONAL SKILLS

**Machine Learning & Predictive Modeling**: Proficient in designing and implementing models tailored for financial and cybersecurity scenarios.

**Quantitative Data Analysis**: Strong foundation in mathematical and statistical analysis, driving informed decision-making and risk mitigation.

**Programming**: Skilled in Python, C++, Visual Basic, C#, Matlab, and Assembly language.

**Cybersecurity**: Comprehensive knowledge in penetration testing, network hardening, IDS/IPS deployment, and policy development.

**Financial** **Modeling & Analysis**: Experienced in real-time bond valuation, risk assessment, and advanced financial calculations.

**Project Management**: Demonstrated leadership in managing cross-functional teams in both financial and military environments.

**Research & Development**: Proven expertise in developing bond valuation models, financial software, and cyber analytical tools.

**Trading Platform Systems**: Proficient with Bloomberg LP and Think or Swim.

**Risk Assessment**: Accomplished background in financial and cybersecurity risk analysis and mitigation.

**Valuations & Pricing**: In-depth knowledge of Option-Adjusted Spread (OAS) based valuations and intra-day pricing methodologies.

**Policy Implementation & Compliance**: Experience in devising and enforcing policies in both finance and cybersecurity domains.

# PROFESSIONAL EXPERIENCE

# Leidos – Denver Colorado 2022 – Present

# Chinese Linguist Screener

* Reviewed general and technical source material in the target language to prepare accurate written gists, translations, and/or transcriptions in idiomatic English
* Scanned and processed a large amount of material in a foreign language for critical or essential elements of information as defined by the customer
* Provided input to other team members in the production of reports
* Leveraged information system skills (i.e., word processing and data entry), use advance language software programs, and participated in forensic processing

# UNITED STATES ARMY – Various Locations 2013 – Present Cyber Security Analyst

* Managed a team of 6 in a deployed environment focused on mission-critical cyber operations at the Allied Strategic Command Center.
* Led network hardening initiatives, ensuring robust cybersecurity measures in a multinational operational hub.
* Conducted proactive threat hunting to identify and mitigate potential cyber risks.
* Performed in-depth network traffic analysis to monitor and assess the security posture of the operational network.
* Deployed IDS (Intrusion Detection System) and IPS (Intrusion Prevention System) across various network tiers to enhance real-time threat detection and prevention.
* Established and implemented a comprehensive network policy, providing guidelines and best practices for the network administration team.
* Preformed penetration testing on various over 60 commercial systems and over 20 government systems
* ● Provided detail documentation of systems vulnerabilities
* Provided over 40 reports of recommendations for system hardening
* Developed offensive cyber analytical tools, software, and hardware

# Property Manager & Security Specialist

* Cultivated effective communication by disseminating vital information while in a rapidly evolving environment; demonstrated abilities under pressure and awarded an Achievement Medal for work
* Interfaced with 5 personnel in risk management and security matters to support overseas operations; increased operational readiness ratings from 95% to 98% within a 3-month period
* Implemented a meticulous property management system for a department of 25 to provide accountability of $26M worth of government property, equipment, and assets; resulted in 100% return of items
* Reduced the cost of equipment maintenance processing 25% by using linear programming in Southwest Asia during foreign relations
* Hand selected to advise 5 senior command teams on decision making of departmental movements during deployment as a result of statistical competency and demonstrated strategic planning abilities

# ANDREW KALOTAY ASSOCIATES INC. – New York, NY 2006 – 2013 Fixed Income Analyst

* Provided debt management, risk analysis, refunding analysis, and advised new issue-level for major U.S. utility companies monthly
* Partnered with Guzman and Company to provide debt analysis for over 40 utility companies across the United States, specifically providing insight on various fixed income products and related derivatives
* Delivered over 4000 agency securities pricing daily based on option-adjusted spread (OAS) based fixed incomes and swap valuations
* Researched intra-day pricing methodology in the Muni ETF in 2008
* Established a Muni advance refunding calculator with BondBuyer a Municipal finance news publication
* Performed fixed income calculations: price-yield conversion, cash-flow analysis, and accrual interest with different day-count convention
* Conducted fixed income risk analysis: scenario horizon analysis, key rate durations, effective duration, effective convexity
* Facilitated refunding analysis: refunding efficiency, refunding structures analysis, Muni advance refunding analysis
* Reported yield curve analysis: discount factor, zero rate curve, forward rate curve, yield spread analysis

# Financial Software Developer

* Developed excel based software to convert Municipal callable yield curve to bullet curve; streamlined processes to identify potential vulnerabilities and reconcile deficits
* Utilized BondRisk an excel based portfolio analysis tool by using BondOAS library a fixed income valuation software provided by Andrew Kalotay Associates, Inc.
* Advanced a fixed income analytical tool in varies of the platform in support of providing the best level of accurate data for conservative – moderately aggressive investments/expenditures

# Data Analyst

* Analyzed over 1,800,000 Muni bond trade prices to test the robustness of tax-exempt bond pricing system
* Forecasted forward exchange rate by examining over 3 years of historical data
* Retrieved and studied the historical U.S. treasury monthly rate from 1960 to 2012 to provide an independent portfolio management preferment validation

# NEW YORK UNIVERSITY, SCHOOL OF ENGINEERING – Brooklyn, NY 2002 – 2006 Department Coordinator

* Arranged tutoring sections schedule for 300+ classes and assisted Professors in the preparation of assessments and exams in accordance with compliance and policy standards for the University
* Taught review lectures in all undergraduate mathematical courses in an effort to increase retention for the institution
* Directed department tutors to provide most efficient tutoring section; reduced recourses by 25%

# EDUCATION / CERTIFICATIONS

**Bachelor of Science** | Mathematics | Statistics & Financial Modeling Concentration | New York University Tandon School of Engineering | Brooklyn, NY | Cum Laude 2005 Graduate

**Master of Science** | Mathematics | University of Colorado Colorado Springs | Colorado Spring, CO | 2018 Graduate **CompTIA Security+** | 2022

**Cisco Certified Network Associate** | 2021 **Virtual Hacking Lab Penetration Testing Course** | 2021 **Actuary** | 2006

# AWARDS

Distinguished Graduate U.S. Army Cyber School | Army Achievement Medal, U.S. Army (4) | Dean’s List, New York University (5) | Cum Laude, New York University | Outstanding Graduate Student