[ALBERT DING]

[703-826-5604] | [albertding.va@gmail.com] | [www.linkedin.com/in/albert-ding-73184a1b0/]

EDUCATION

[University of Virginia]	**GPA:** 3.83/4.00
Bachelor's Degree, Computer Science	**[SAT]:** 1550/1600 (750 R&W | 800 M)

Honors & Awards:
National Merit Scholarship Recipient (2020)

SKILLS

AWS Cloud, C++, C#, Python, Java, SQL, KDB/Q, Linux Environment, Data Analysis, Pandas, NumPy

PROFESSIONAL CERTIFICATIONS

[Databricks Certified Data Engineer Associate]	[01/2023]
[AWS Certified Database – Specialty]	[09/2022]
[AWS Certified Developer – Associate]	[07/2022]
[AWS Certified Solutions Architect – Associate]	[07/2022]
[AWS Certified Cloud Practitioner]	[06/2022]

PROFESSIONAL EXPERIENCE

[Morgan Stanley] | [Hong Kong SAR]   [06/2024] – [Current]
[*Quantitative Strategist Intern], [Institutional Equities Division*]

- [Used KDB/Q, C#, and TypeScript to build an equity swap position/expiry tracking tool for the Delta One Structured Products and Prime Brokerage Desks.]
- [Contributed to ongoing Locate Optimizer project with Java and KDB/Q with full-time employees.]
- [Performed data analysis and built queries using data from live swap position tables to model cost savings resulting from early actioning of client swaps.]

[Jane Street] | [New York City], [New York, United States]   [05/2023] – [08/2023]
[Software Engineer (Trading Desk) Intern], [Trading and Research Department]

- [Automated and improved upon manual trading processes for Fixed Income and ETF desks with Python/Pandas, SQL, Bash, and FIX protocol. Shortened processes from hours to minutes.]
- [Lead design and implementation of projects and worked closely with full-time traders to ensure that project was completed before time and went beyond original plans.]
- [Performed analysis and modeling on various large datasets with millions of records containing information from corporate events to bond trades.]
- [Took classes for exposure to trading concepts, asset classes, and capital markets.]

[Amazon Web Services] |[Herndon], [Virginia, United States]   [06/2022] – [09/2022]
[Software Engineer (Cloud) Intern], [National Security Team, Worldwide Public Sector, Professional Services]

- [Worked on AGILE team to develop three-tier web-based auditing application for AWS workflows to support internal audits of a Fortune 500 apparel company prior to anticipated Fall Large Scale Events.]
- [Used vectorization and parallel computing with Pandas to achieve optimization of data-related tasks. Cut run times down from hours to minutes.]
- [Benchmarked and designed back-end refactoring of application data storage from S3 to DynamoDB. Reduced client load-time by >75% at all tiers of the application.]