Steven Chiu

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PROFESSIONAL SUMMARY

Data analyst with 2 years of experience in financial data engineering and reporting at Freddie Mac, focused on SQL, Python, ETL pipelines, and automated financial reporting. Promoted to Professional level in under a year, ahead of the standard two-year progression, after delivering high-impact automation across Finance, Capital Markets, and Risk. Experienced in managing large-scale financial datasets, supporting 100+ users through internal database administration, and building dashboards and tools that improve decision-making and operational efficiency.

EXPERIENCE

Analytics Data Engineer - Reporting and Automation (Professional)
May 2025 – Present

Freddie Mac
McLean, VA

- Automated 14+ ETL pipelines in Python pulling from Snowflake, ATLAS, Fair Value, Oracle, and Maverick, cutting process times by 95% and enabling fully automated financial reporting across Capital Markets.
- Served as one of three core administrators for the internal ICM database, managing secure read/write access for 100+ users and improving data reliability and operational continuity.
- Converted legacy Excel/VBA workflows to Python, improving runtime by up to 90% and reducing recurring manual errors to near zero.
- Built and maintained Power BI dashboards (Power BI, DAX, SQL, Python) for forecasting, valuation, and model tracking, integrating multi-source datasets to support CFO-level decisions.
- Provided advanced SQL support for Capital Markets, enabling stakeholders to run granular queries (e.g., CUSIP-level UPB) and improving reporting accuracy and turnaround times.
- Led end-to-end automation of the Risk Control Self-Assessment (RCSA) process using Python, reducing completion time by 99% and streamlining reporting for the Risk Controls team.
- Delivered Python training/analytics support to 100+ users, increasing technical proficiency across the division.
- Designed a CustomTkinter-based GUI in Python for large-scale business change management, automating email notifications, revision workflows, and reconciliation steps for 50+ users and reducing request processing time by 80%.

Financial Rotational Analyst
June 2024 – May 2025

Federal Home Loan Mortgage Corporation (Freddie Mac)
McLean, VA

- Automated CDE extraction and analysis(Python, SQL, Snowflake API), reducing a year-long manual effort to one month, ensuring timely compliance and audit readiness.
- Built a Cytoscape-based data lineage visualization tool(Python), improving clarity for 20+ stakeholders and accelerating data governance and impact analysis workflows.
- Automated Multifamily LIHTC accounting processes(Python), cutting the process time from 5 days to 10 minutes per month, reducing operational risk and freeing up valuable resources for more strategic tasks.
- Improved metadata management workflows by automating manual validation tasks(Python), reducing process time by 50% and improving data accuracy for core financial systems.

EDUCATION

University of North Carolina at Chapel Hill
Chapel Hill, NC

Bachelor of Science in Statistics, Bachelor of Science in Economics
Aug. 2020 – May 2024

TECHNICAL SKILLS AND CERTIFICATIONS

Snowflake Certification: SnowPro Associate Certification
Programming: Python, SQL, VBA, DAX, Power Query
ETL and Automation: ETL Pipeline Dev, Data Transformation and Integration, Data Automation
Business Intelligence: Power BI, Tableau, Dashboard Design and Reporting
Data Management: Data QA, Data Governance, Metadata Management