

# Steven Chiu

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## PROFESSIONAL SUMMARY

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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

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### **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

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### **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

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**Snowflake Certification:** SnowPro Core 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