

Jimmy Nguyen

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PROFESSIONAL SUMMARY

Data Engineering Associate Manager with 17+ years of combined professional and hobbyist programming experience. Builds and automates scalable ETL pipelines, spearheads Glue-to-dbt migrations accelerated by Claude-powered LLM workflows, and modernizes legacy infrastructure. Has led data teams and delivered 40+ pipelines that cut delivery from months to hours.

SKILLS

- **Data Engineering:** ETL, Data Pipelines, Data Modeling, Data Warehousing
- **Languages:** Python (9 YoE), SQL (9 YoE), Java (8 YoE)
- **Cloud & DevOps:** AWS (EC2, S3, Glue, Lambda, Redshift, Athena, DMS), boto3, CI/CD, Docker
- **Databases:** PostgreSQL, Oracle, Amazon Redshift, Amazon Athena
- **Tools & Libraries:** PySpark, Pandas, NumPy, Git, REST APIs, dbt, Liquibase, GIS
- **AI & ML:** LLM Workflows (Claude), Agentic AI, Prompt Engineering, Generative AI, NLP, Predictive Modeling
- **Leadership & Process:** Team Leadership, Agile/Scrum, Stakeholder Communication

PROFESSIONAL EXPERIENCE

ACCENTURE FEDERAL SERVICES

Arlington, VA

Data Engineering Associate Manager

2024 - Present

- **Architected, deployed, and automated** 40+ data pipelines, **reducing delivery timelines from months to hours** using Python, PySpark, AWS Glue, Lambda, S3, and Athena.
- **Engineered** a data profiling tool that auto-recommends database schemas, **increasing ingestion efficiency by 80%** for unstructured and semi-structured data.
- **Spearheading** Glue-to-dbt migration with **Claude-powered LLM prompting** and **Agentic AI Workflows**, converting **150+ models** to date for ~30 users across engineering, QA, and analytics.
- **Revamped** the developer environment with code formatters, linters, AI code assistants, and CI/CD pipelines, **improving developer productivity by up to 60%**.

CITIAN SOLUTIONS

Washington, D.C.

Data Team Lead

2021 - 2023

- **Reconstructed the entire U.S. roadway network** and automated QA/QC workflows using GIS, web scraping, data visualization, and REST APIs, **eliminating manual validation**.
- **Built** a GIS refinement algorithm using geocoders, predictive modeling, NLP, and distributed systems, **cutting spatial error from 1,000+ ft to 6 ft**.
- **Parallelized** ETL pipelines with Python multiprocessing and automated AWS EC2 orchestration, delivering **990× faster performance** on compute-intensive workloads.
- **Recovered 93% of missing data** from hundreds of APIs and data warehouses using Python and PostgreSQL.
- **Developed hundreds of dashboards** and streamlined data transmission, **reducing load times by 40%** and **speeding user workflows by 70%**.
- **Led a 7-member data team**, translating stakeholder needs into technical tasks in GitLab and **improving project delivery efficiency by 20%**.

EDUCATION

UNIVERSITY OF MARYLAND

College Park, MD

Bachelor of Science, Major in Computer Science; Minor in Mathematics; Honors College

2017 - 2021

ADDITIONAL EXPERIENCE

MENTORSHIP

2014 - Present

- Provide long-term mentorship in **career development, data engineering, Python, and LLM Workflows**, helping aspiring engineers enter and grow in the tech industry.

GAME DEVELOPMENT

2009 - 2022

- Developed dozens of indie games, **reaching tens of thousands of unique players worldwide**.