Luke T. Udell

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Professional Summary

Retired U.S. Army Officer (Major) and Data Engineer with a Master's in Software Engineering and a proven track record of building foundational data architectures in ambiguous, high-stakes environments. Expert in Python, SQL (PostgreSQL), and modern data stack tooling, with a "full-stack mindset" that bridges the gap between complex engineering and cross-functional stakeholder needs (Product, GTM, Operations). Combines 18 years of operations leadership with rigorous data engineering to deliver reliable, scalable analytics, highly aligned with Anthropic's mission to build reliable and steerable AI systems.

Technical Skills

- **Programming & Data Modeling:** SQL (PostgreSQL, MSSQL), Python (Pandas, NumPy), dbt, Kimball Star Schema
- **Data Processing & Orchestration:** Databricks, Snowflake, Redshift, ETL/ELT Pipelines
- **Data Visualization & Self-Serve:** Streamlit, Tableau, Power BI
- **Software Development & DevOps:** Git, Docker, Java, Spring Boot, Jenkins, Ansible
- **Data Quality & Applied Analytics:** Statistical Analysis, Machine Learning (Fuzzy Matching, Predictive Modeling), Data Governance

Professional Experience

IBM – Remote

Data Engineer
April 2024 – Present

- **Foundational Data Architecture**: Architected and deployed a PostgreSQL data warehouse utilizing Kimball star schema, transitioning the program from a fragile read-replica setup to a highly reliable, scalable analytical environment.

- **Pipeline Engineering & Orchestration**: Designed and managed complex multi-step ETL pipelines using Databricks and SQL. Built modified ODS, dimension, and fact tables that drastically improved query speed, data accuracy, and reporting uptime.

- **Self-Serve Analytics & Dashboards**: Developed intuitive Streamlit applications and Tableau dashboards to enable self-serve insights for cross-functional teams and senior executives at the Department of Veterans Affairs (VA).

- **Cross-Functional & GTM Partnership**: Demonstrated a "full-stack mindset" by rapidly pivoting to address urgent business requirements, leveraging Python and ML techniques (e.g., fuzzy matching) to resolve critical client billing inquiries without disrupting core engineering sprints.

- **Bias for Action & Scale**: Spearheaded data infrastructure for a new VA program, delivering initial solutions within 30 days. Engineered zero-query automated Slack alerts and processed 300+ data requests, reducing a 100K+ reporting backlog to under 25K to meet strict SLAs.

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U.S. Army – Various Domestic & Overseas Locations

Retired Officer (Major, O-4)
2006-2024

Career Progression:

- Enlisted Soldier (E1–E5), 2006–2010 → Commissioned Officer (2LT–MAJ), 2010–2024

- Retired early on medical grounds with 18 years of service, full pension, and veteran status

Key Assignments & Achievements:

- Brigade Operations Officer / Senior Data & Operations Analyst (Major), 2021–2024

    o Directed operational planning and data integration for 5,000+ personnel.

    o Designed and implemented automated Power BI pipelines connecting GCSS-A (logistics), IPPS-A (personnel), and DTMS (training).

    o Built dashboards and statistical models to improve readiness, resourcing, and mission planning.

    o Championed data governance initiatives, ensuring compliance with security and accuracy requirements.

    o Coordinated enterprise-scale data reporting across multiple brigades, enhancing transparency and decision-making.

- Company Commander / Plans Officer / Battle Captain (Captain), 2016–2018

    o Commanded 150+ soldiers, overseeing readiness, training, and welfare.

    o Introduced data-driven readiness tracking, improving accountability and efficiency.

- Platoon Leader & Staff Officer (Lieutenant), 2010–2015

    o Led training and daily operations, implemented early digital reporting systems for readiness.

- Enlisted Soldier → NCO (E1–E5), 2006–2010

Awards: Bronze Star Medal (Operation Enduring Freedom, 2012–2013), 3 × Meritorious Service Medals, multiple commendations.

Education

Master of Science, Software Engineering (GPA: 4.00)
Regis University, Colorado | September 2021 – October 2023

Bachelor of Science, Criminology and Criminal Justice (GPA: 3.39)
Niagara University, New York | September 2007 – May 2010

Additional Coursework: 30 credits in Computer Science (Regis University, 2016–2018), covering multiple programming languages, Discrete Math, Data Structures, Computational Foundations, Algorithms & Analysis, and Principles of Programming Languages.

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