

# Austin McLaughlin

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## Professional Experience

### Caterpillar Inc.

Supply Chain Data Engineer

January 2023 – Present

- Optimized our graph database performance, achieving a 20x reduction in key job run times.
- Established a data monitoring framework that identified several sets of data quality errors, allowing us to improve forecasting accuracy and decision-making for large machine manufacturing.
- Enhanced collaboration with product owners by establishing new standards for testing, release, and documentation practices.

Development and Support Team Lead

June 2020 – December 2022

- Led an agile dev team of 5 [2020-22] and a support team of 8 [2022] to adapt Coupa's SaaS platform to Caterpillar's business.
- Integrated a real-time API from Coupa to internal systems, enabling tax and AP rules to scale; notably in diverse tax environments such as India. This removed manual approvals from 100,000+ invoices per year.
- Achieved a 30% reduction in incident tickets and increased invoice integration rates to 99.9%.

QA Lead

June 2018 – May 2020

- Conducted SIT & UAT testing for our global deployment of Coupa's SaaS platform - validating the system's connection to 10+ enterprise systems as we scaled to over \$4B in spend per year.
- Automated integration testing for over 40 regression test scripts.
- Supported vending machine software hosted on-prem and present across Caterpillar facilities (2018-22).

## Education

**Indiana University Bloomington** - B.S. in Informatics, Minor in Economics - May 2018

Teacher's Assistant, INFO-I 210 Intermediate Python, August 2016 – December 2017

## Certifications

**AWS Certified Solutions Architect**, February 2023

## Projects

**iOS Development** – Independently developed an iOS application backed by a cloud-hosted web service and utilizing external APIs including ChatGPT, Foursquare, and Google Cloud Platform. [View Demo: click here.](#)

## Skills

**Languages:** Python, SQL, Swift (iOS), PHP, Java, Bash/Terminal, JavaScript, HTML/CSS

**Technologies:** AWS (EC2, Glue, Lambda, S3), Neo4J (Graph DB), Snowflake, Coupa, CribMaster, Salesforce, Windows IIS, Linux, UFT (Testing Automation)

**Other:** API Development (JSON/XML), SaaS/SAP Integration (CSV)