

# Malek Aldoss

[linkedin.com/in/malek-aldoss](https://www.linkedin.com/in/malek-aldoss) | [Malek.TAldoss@gmail.com](mailto:Malek.TAldoss@gmail.com) | [malekaldoss.com](https://malekaldoss.com) | (319) 359-8818 | [github.com/m-Doss](https://github.com/m-Doss)

## Technical Skills

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**Languages:** Python; Java; SQL

**Platforms:** Microsoft Azure, Databricks, Snowflake

**Frameworks:** PySpark; Hadoop; Flask; Docker

**Concepts:** Data modeling; ETL/ELT pipelines; Distributed processing; RESTful APIs

## Work Experience

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### PricewaterhouseCoopers

Des Moines, IA

Digital Assurance & Transparency Intern

June 2022 – August 2022

- Conducted audits on key client reports by analyzing the SQL query logic and validating over 50 reports relied on by the external audit team.
- Assisted a Global 500 Client in conducting an audit of their IT infrastructure, including databases, operating systems, and logs for SQL, Oracle, and SAP.
- Analyzed the client's information technology general controls (ITGCs), including controls for program and data access, program changes, and computer operations.
- Evaluated the effectiveness and completeness of the client's automated controls, documenting the findings.
- Developed procedures for benchmark and baseline testing for key reports and ITGCs and documented their outcomes.

### Auto Revivals

North Liberty, IA

Self-employed

June 2022 - Present

- Established a mobile auto detailing business and broke even within a month by utilizing organic marketing.
- Automates business finances using Excel, PostgreSQL, and Python saving me an estimated three hours every week.
- Oversees all client scheduling, website, and marketing efforts.

## Education

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### University of Iowa – Tippie College of Business

Iowa City, IA

Bachelor of Business Administration

Expected December 2023

- Major in Business Analytics & Information Systems; Minor in Computer Science
- Relevant Coursework: Database management; Data Engineering; Cloud Computing; Data Wrangling; Data Mining; Big Data Management

### Kirkwood Community College

Cedar Rapids, IA

Associate Degree

May 2020

- Liberal Arts & Science; Engineering focus
- Relevant Coursework: Calculus I, II, & III; Classical Physics I & II; Thermodynamics; Engineering I & II

## Projects

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### Flask RESTful API

- Built an ecommerce-like REST API that allows us to create and retrieve stores, items, item tags, and users.
- Written in Python and Flask. Utilized SQLAlchemy to model data, JWT for user authentication, and marshmallow for data serialization and deserialization. The API was tested using Postman and deployed on Azure.

### ETL/ELT Pipelines on Azure

- Built a data pipeline that copies and transforms structured and semi-structured data from relational databases.
- Utilized Azure's Data Factory, Azure SQL database, and Cosmos DB.

## Certifications

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Microsoft Azure Fundamentals – AZ 900 Certification

December 2022

Azure data Fundamentals – DP 900 Certification

Expected May 2023

Snowflake Hands On Essentials - Data Warehouse

February 2023