

# Samuel Kohn

samuelikohn@gmail.com ■ (734) 417-8780 ■ 151 S. East St., Apt. 103, Indianapolis, IN 46202  
<https://github.com/samuelikohn>

---

## OVERVIEW

Detail-oriented Software Developer and Data Engineering Consultant with experience in Python, VBA, SQL, and ETL processes to optimize data pipelines and automate workflows. Skilled in data transformation, AI model evaluation, and custom application development, with a strong foundation in database management and analytics. Passionate about advancing a career in data engineering and design, creating scalable, efficient solutions.

## WORK EXPERIENCE

**Software Developer**  
*1099 Consultant*

**December 2022 - Current**

- Worked independently and resourcefully to create scripts and desktop applications using Python
- Created custom Microsoft Excel add-ins using VBA to assist with client goals
- Conducted data annotation and model evaluation on DataAnnotation and Outlier, contributing to the refinement of AI reasoning capabilities
- Assessed and tested AI models on programming, data analysis, and complex math tasks to evaluate their reasoning and problem-solving skills
- Provided detailed feedback on model outputs, improving AI performance in logical reasoning, code generation, and quantitative analysis
- Contributed to training and fine-tuning state-of-the-art large language models used in advanced AI applications

**Engineering Materials Database Consultant**  
*Materials Data Management, Inc.*

**January 2022 – December 2022**

- Implemented and customized GRANTA MI software suite for clients, configuring individual apps and optimizing database workflows
- Developed VBA and Python scripts to automate data processing and enhance system functionality
- Designed and implemented XSLT text transformers for data migration and transformation within GRANTA MI
- Assisted clients in database architecture design, ensuring efficient data organization and retrieval
- Provided ongoing support and expansion for client databases, enhancing functionality and scalability
- Utilized ETL processes to assist in engineering solutions
- Crafted SQL queries against a relational database with large datasets and created data visualizations in Tableau
- Worked on data pipeline solutions, integrating GRANTA MI with external systems to streamline data workflows

## EDUCATION

**Purdue University**  
Major: Bachelor of Science in Materials Science and Engineering  
Minor: Mathematics

**August 2017 – May 2021**  
West Lafayette, IN

## CERTIFICATIONS

**IBM Full-Stack JavaScript Developer Certificate**

**June 2025**

- Skills: JavaScript, HTML, CSS, React, Node.js, Express.js, Git, GitHub, Frontend development, Backend development, Docker, Kubernetes, MongoDB, CI/CD pipelines

**Microsoft Python Development Professional Certificate**

**May 2025**

- Skills: Data analysis and visualization, Automation, Web scraping, Flask, Generative AI

**Google Advanced Data Analytics Professional Certificate**

**September 2024**

- Skills: Python, Machine learning, Statistical analysis, Data Mining

**Google Data Analytics Professional Certificate**

**August 2024**

- Skills: Microsoft Excel, SQL, Tableau, R, Exploratory Data Analysis