

Samuel Kohn

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EDUCATION

The University of Chicago

M.S. in Computer Science

Chicago, IL

September 2025 – June 2026 (Expected)

Purdue University

B.S. in Materials Science and Engineering

Minor in Mathematics

West Lafayette, IN

August 2017 – May 2021

PROFESSIONAL EXPERIENCE

1099 Consultant

Indianapolis, IN

Software Developer

December 2022 – September 2025

- Specialized in projects involving artificial intelligence, including the integration of generative AI into applications and providing synthetic training data on programming, data analysis, and complex math tasks, to improve the reasoning ability of large language models.
- Created full-stack web applications using React JS, JavaScript, TypeScript, HTML, CSS, Node JS, Express JS, and PostgreSQL to achieve client goals.
- Automated business processes by writing applications and scripts in Python and VBA to significantly reduce the time required for regular tasks.

Materials Data Management, Inc.

Indianapolis, IN

Software Engineering Materials Consultant

January 2022 – December 2022

- Built end-to-end data pipelines, including ad hoc data analyses, utilization of ETL processes, design of relational database systems, XSLT text transformers, and data visualizations in Tableau to create data management solutions for enterprises across a multitude of industries and sectors grossing over \$10 billion in revenue.
- Crafted custom software solutions using Python, Pandas, NumPy, MS Excel, and VBA to automate both internal and external processes resulting in a reduction of development time of 25%.

PROJECTS AND ACADEMIC EXPERIENCE

Portfolio

September 2025

- Created a personal website with Next JS, React JS, TypeScript, HTML, CSS, and Tailwind to showcase my experiences and skills in a UX-friendly manner.
- Trained an AI chatbot on my data using Langchain for embeddings and vectorization, and Google GenAI API to showcase the integration of artificial intelligence and further improve UX.

K-Puzz

July 2025

- Designed a full-stack web application based on Kjarposko puzzles using React JS, JavaScript, HTML, CSS, Node JS, Express JS, and PostgreSQL.

SET

December 2024

- Built a desktop application based on the card game SET using Python and PyQt with additional gameplay features and customization.

CERTIFICATIONS

- IBM Full-Stack JavaScript Developer Certificate June 2025
- Microsoft Python Development Professional Certificate May 2025
- Google Advanced Data Analytics Professional Certificate September 2024
- Google Data Analytics Professional Certificate August 2024

SKILLS

Programming Languages: Python, HTML, CSS, JavaScript, TypeScript, SQL, R, MATLAB

Libraries/Frameworks: Express JS, Flask, Next JS, Node JS, NoSQL, NumPy, Pandas, PostgreSQL, PyQt, React JS, Scikit Learn, Tailwind

Technical Skills: CI/CD Pipelines, Docker, Excel, Exploratory Data Analysis, Generative AI, Git, GitHub, Kubernetes, Langchain, Large Language Models, Machine Learning, MongoDB, MS Office, Tableau