Samuel Kohn

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EDUCATION

The University of Chicago   Chicago, IL
M.S. in Computer Science   September 2025 – June 2026 (Expected)

Purdue University   West Lafayette, IN
B.S. in Materials Science and Engineering   August 2017 – May 2021
Minor in Mathematics

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
Engineering Materials Software 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
- 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.

GiftLink
- Built a full-stack web application integrating user authentication, searching, and pagination, using React JS, Node JS, Express JS, HTML, CSS, and MongoDB allows users to gift and receive household items.

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

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