

# Samuel Kohn

(734) 417-8780 | [samuelikohn@gmail.com](mailto:samuelikohn@gmail.com) | [LinkedIn](#) | [GitHub](#) | [Personal Website](#)

## EDUCATION

<b>University of Chicago</b> M.S. in Computer Science	Chicago, IL June 2026
<b>Purdue University</b> B.S. in Materials Science and Engineering, Minor in Mathematics	West Lafayette, IN May 2021

## PROFESSIONAL EXPERIENCE

<b>Independent Consultant</b> <i>Software Developer</i>	Indianapolis, IN December 2022 – September 2025
<ul style="list-style-type: none"><li>• Led multiple projects from end to end involving artificial intelligence and the integration of generative AI into applications, providing synthetic training data on programming, data analysis, and complex math tasks, to improve the reasoning ability of large language models.</li><li>• Developed full-stack web applications using React JS, JavaScript, TypeScript, HTML, CSS, Node JS, Express JS, and PostgreSQL to achieve client goals.</li><li>• Automated and enhanced business processes by writing applications and scripts in Python and VBA to significantly reduce the number of manual hours required of employees.</li></ul>	

<b>Materials Data Management, Inc.</b> <i>Engineering Materials Software Consultant</i>	Indianapolis, IN January 2022 – December 2022
<ul style="list-style-type: none"><li>• Built end-to-end data pipelines using Python, SQL, and VBA, 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.</li><li>• Developed 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%.</li></ul>	

## PROJECTS

<b>Recipe Assistant</b>	March 2026
<ul style="list-style-type: none"><li>• Created an AI-powered recipe assistant based on OpenAI API and Streamlit to discover, create, and refine recipes.</li><li>• Utilized an MCP server and Spoonacular API for effective tool calling and persistent storage.</li></ul>	

<b>Portfolio</b>	July 2025
<ul style="list-style-type: none"><li>• Developed website with Next JS, React JS, TypeScript, HTML, CSS, and Tailwind to showcase experiences and skills in a UX-friendly manner.</li><li>• Trained an AI chatbot on data using LangChain for embeddings and vector RAG, and Google GenAI API to showcase the integration of artificial intelligence and further improve UX.</li></ul>	

<b>GiftLink</b>	June 2025
<ul style="list-style-type: none"><li>• Built a full-stack web application integrating user authentication, searching, and pagination, using React JS, Node JS, Express JS, HTML, CSS, and MongoDB allowing users to gift and receive household items.</li></ul>	

<b>K-Puzz</b>	July 2025
<ul style="list-style-type: none"><li>• Designed a web application based on Kjarposko puzzles using React JS, JavaScript, HTML, CSS, and Tailwind.</li></ul>	

## 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, Java, Go, HTML, CSS, JavaScript, TypeScript, SQL, R, MATLAB  
Libraries/Frameworks: ExpressJS, Flask, MongoDB, MySQL, NextJS, NodeJS, NoSQL, NumPy, Pandas, PostgreSQL, PyQT, ReactJS, REST API, Streamlit, Tailwind  
Software: LLMs, Generative AI, Agents, Prompt Engineering, LangChain, LangGraph, Vector DB, Vector RAG, Git, GitHub, GitHub Actions, CI/CD Pipelines, Docker, Kubernetes, Tableau, Excel, MS Office Suite