

Joe Murray

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EDUCATION

- **University of Kansas** Lawrence, KS
Bachelor of Science in Computer Science *Aug 2020 - May 2024*

SKILLS SUMMARY

- **Languages** Python, C++, JavaScript, SQL, HTML, CSS
- **Tools** Git, Linux, Firebase, Flutter, PyTorch, Selenium, Playwright, Docker, Google Cloud, REST, Microsoft Office

EXPERIENCE

- **kctechworks** Kansas City, MO
Junior Software Developer *June 2023 - Current*
 - Built analytical reporting tools using Google and Open AI to analyze customer web traffic for patterns, trends, and anomalies to support search engine optimization (SEO) and marketing campaigns.
 - Developed an automated Python script to create financial forecasting report models using PyTorch and exponential smoothing to determine net revenue and income forecasts for a roofing company.
 - Expanded existing demographic datasets by 35% through additional data collection with Playwright and Selenium, enhancing data accuracy and supporting precise budget allocations for advertising.
 - Contributed to the development of a SaaS SEO tool to automate the identification and optimization of content strategies for websites, utilizing ReactJS, NodeJS, and Neon DB
 - Debugged code, created and executed test cases, and performed unit and integration testing to ensure software quality and functionality.

PROJECTS

- **U-Park** (Flutter, Firebase, Google Maps API, Stripe, Ticketmaster, Jumio)
Led the design and implementation of a AirBnB like SaaS application that connects local homeowners with event attendees for temporary parking solutions. Integrated Stripe for secure payment processing, Ticketmaster for event selection, Google Maps API for determining the radius of available parking spots, Jumio for identity verification, and Firebase for authentication and real-time listing management.
- **Spotifyer** (Python, OAuth, JavaScript, Spotify Web API, ShadCN, HTML/CSS)
Developed a data-driven project utilizing OAuth to extract Spotify user data, generating comprehensive music statistics and insights into user preferences. Created an interactive dashboard showcasing intriguing metrics and trends, empowering users to explore their music taste with visualizations and analytics.
- **LaTeXer** (Google OCR, OpenAI API, Python)
Developed a tool that takes handwritten notes, feeds them into Google OCR, and analyzes them using the OpenAI API. Annotates or solves notes based on user choice and returns a completed LaTeX PDF.
- **UFC Oracle** (Beautiful Soup, PyTorch, SERP, Python)
Webscraped every description of every UFC fight in history using BeautifulSoup, then utilized Python scripts for data preprocessing and cleaning. Fine-tuned a PyTorch model to generate detailed, word-by-word fight predictions between user-selected fighters, providing descriptive insights into potential match outcomes.

INVOLVEMENT

- **Artificial Intelligence Club (University of Kansas)**
Co-founder. Participated in hackathons and communicated with industry sponsors for tailored workshops. Organized team meetings and allocated university resources to set up team projects. (Jan 2022 - May 2024)
- **IT Officer for Phi Gamma Delta (University of Kansas)**
Managed operations including troubleshooting, maintaining, and upgrading network systems. (Aug 2020 - May 2021)