

Robert Brandon Thompson

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Summary

Domain-agnostic developer with expertise in Python, Prompt Engineering, and Data Analysis, based through self-study, coursework, and an AI development bootcamp. Experienced in building data-driven tools and prototyping solutions. Eager to transition into an adaptive developer role, creating applications and scalable systems or optimizing existing systems.

Skills

- Technical: Python, JavaScript/TypeScript, Rust, SQL, AI/ML, Git, DevOps, Data Visualization
- Non-Technical: Community Engagement, Agile Development, Problem-Solving, Teamwork

Projects

ResearchGPT - https://github.com/rb-thompson/research_gpt_assistant

Developed a python-based research tool that leverages advanced AI techniques to process academic documents, generate insights, and automate research workflows..

Coder's Guide Portfolio - <https://coders-guide-portfolio.vercel.app/>

Designed a web-based platform using Flask and JavaScript to showcase coding projects, featuring interactive portfolio displays in a gamified style.

Education

Code Kentucky

AI Development Bootcamp 2024-2025

- Relevant Coursework: Machine Learning, NLP, Data Analysis, Predictive Modeling

Big Sandy Community and Technical College, Pikeville, KY

Computer Science 2019-2024

- Relevant Coursework: Machine Learning, Data Structures, Algorithms, Database Systems

American National University, Pikeville, KY

Information Systems Engineering 2012-2014

- Relevant Coursework: Server Management, Programming, Database Design

Work History

Pike County Public Library, Pikeville, KY

Assistant Technology Coordinator, April 2019-May 2024

- Developed and maintained data-driven tools using Laravel and Flask, enhancing library operations.
- Prototyped 3D printing solutions and led STEM workshops, reaching 500+ community members.
- Implemented a county-wide broadcasting network and content delivery across 5 branches.

Rising Sun LLC, Lexington, KY

Mason & Project Manager, 2015-2018

- Managed logistics for construction projects, optimizing resource allocation.
- Collaborated with cross-functional teams to meet project deadlines, improving efficiency.