Natalie Hill

Nataliehill1324@gmail.com • NatalieHill.com • LinkedIn • GitHub

EDUCATION

MASTER OF SCIENCE, COMPUTER SCIENCE

University of Oklahoma   **GPA: 4.00/4.00**

Relevant Coursework: Machine Learning, Artificial Intelligence, Blockchains & Cryptocurrency

BACHELOR OF SCIENCE, COMPUTER SCIENCE

University of Oklahoma   **GPA: 3.70/4.00**

Relevant Coursework: Linear Algebra, Calculus I-IV, Database Management, Operating Systems, Algorithm Analysis
Honors: President's Honor Roll, Dean's Honor Roll, AI/ML Scholar, MRE Leadership Scholar, Dorothy Grace Scholar

PROFESSIONAL EXPERIENCE

VAST VERTEX   New York City, NY
Founding Software Engineer   **APR 2024-Present**

- Developed responsive user interfaces with React, Next.js, and Tailwind CSS, enhancing user experience and interactivity.
- Implemented backend solutions using Spring Boot and Java, facilitating seamless communication with Python FastAPI for NLP tasks and data extraction.
- Integrated OpenAI API and ElevenLabs to convert extracted data from uploaded research papers into engaging AI podcasts, significantly improving content accessibility and user engagement.

UNIVERSITY OF OKLAHOMA   Norman, Ok
Data Science Researcher   **JAN 2024-May 2024**

- Automated data scraping solutions to retrieve and vectorize over 500k+ open-access research papers into RAG database.
- Used NLP models and prompt engineering to extract relevant material for drug development and research projects.
- Collaborated with cross-functional teams to enhance data retrieval, AI, and user-interface systems, improving research methods and operational efficiency.

DCI CONSULTING   Washington D.C.
Software Engineer Intern   **JAN 2023-Jan 2024**

- Redesigned data analytics algorithms to use R.net packages increasing system efficiency and reducing processing errors by 15%.
- Developed API integrations to streamline data flow between internal and client systems.
- Created and improved front-end interfaces to ease user interaction with data analytics systems, improving overall usability.

INTELEK TECHNOLOGIES   Norman, Ok
Software Engineer Intern   **Jul 2022-Jan 2023**

- Automated data transformation processes, reducing operational times and supporting the company's scalability.
- Implemented data visualization tools to identify operational inefficiencies, informing strategic adjustments and process reengineering.