

Education

Northern Kentucky University | Highland Heights, KY

August 2021 – May 2025

Bachelor of Science in Computer Science (Edge Award, Dean's List Scholarship)

- Relevant Coursework: Object-Oriented Design, Algorithm & Data Discrete Structures, Computer Networking, Database and Web-Dev

Experience

Riverside Electric, Inc

Cincinnati, Ohio

Full Stack Intern - Riverside Electric, Inc

May – August 2022

- Improved website performance by **10%** through website audit, utilizing **JavaScript** and **React** to enhance the overall performance.
- Collaborated with the team on responsive web design using the **Angular** framework resulting in a **5%** increase in user engagement.
- Assisted **SEO** with optimized meta tags and content resulting in a **15%** increase in organic search visibility and website traffic.
- Integrated Google Reviews on the website by utilizing the Google Places API, displaying real-time customer feedback.

Northern Kentucky University

Research Assistant

Feb – Present

- Collaborated with the **STEM** professor to develop a **Movie Recommendation System** using **Python** and Machine Learning.
- Implemented data preprocessing and feature engineering pipelines, optimizing movie recommendation systems with collaborative and content-based filtering algorithms to provide personalized suggestions based on user preferences and movie attributes.
- Performed test and evaluation to assess system performance and user satisfaction while analyzing metrics and incorporating user feedback for interactive improvements and system fine-tuning.

Northern Kentucky University

Teaching Assistant

August 2022 - Present

- Taught Python classes with **50+** students providing hands-on reinforcement on lecture concepts, addressing doubts, offering assistance with assignments, providing constructive feedback, and participating in grading to ensure effective learning.
- Conducted live coding sessions for **Python**, improving students' coding skills and overall grades by **10%**.

Projects

Blood Sphere | Flutter, Firebase, Dart, Java

- Developed a life-saving Blood Sphere mobile application using **Dart** and **Flutter** addressing blood scarcity with a user-friendly interface for quick search and connection between donors and recipients.
- Overcame integration challenges ensuring seamless functionality and efficient access to all features, enhancing user experience.
- Acquired expertise in user authentication and **Firebase** integration showcasing a commitment to cutting-edge technologies.

NourishKids | React, MongoDB, Node.js, Express.js, Stripe, OvenCV

- Developed a MERN stack application delivering a responsive and interactive user interface for seamless user engagement.
- Implemented CRUD functionalities using MongoDB to securely store and retrieve data related to children's meal plans, nutritional information, and donations, ensuring efficient management and quick access to vital information.
- Optimized data flow & user interactions using Express.js and REST APIs for seamless front-end to back-end communication.
- Managed a community of 1k+ registered users, facilitating the provision of daily nourishment for 100+ underprivileged children.

Stock Predictor | Python, Django, Panda, TensorFlow, Matplotlib and Plotly, Git

- Developed a stock predictor using **Python** and machine learning techniques to forecast stock prices based on historical data enabling users to input stock names and receive real-time price information along with buy/sell.
- Utilized Panda library for efficient data analysis and manipulation, and **TensorFlow** for building and training machine learning models.
- Implemented interactive visualizations using **Matplotlib** and **Plotly** to showcase stock price trends enhancing user experience.

Skills

Languages: Java, Python, C, C#, C++, Ruby, JavaScript, Blockchain/Solidity, PHP, Node.js

Framework: Django, AWS, Next.js, Angular Postgres, SQL, MongoDB, Docker, Flask, Firebase, OpenCV, GitHub, Unix/Linux

Hardware: Raspberry Pi, ARM Mbed microcontroller

Leadership/Certificates

- **Bank of America** - Accomplished a virtual program on the company's historical financial performance & SWOT analysis.
- **LYFT Back-End Engineering** - Accomplished a virtual program on Forage expanding expertise in software architecture, system refactoring unit testing, and test-driven development.
- **JPMorgan Software Engineering** - Completed a virtual program on Forage utilizing **Perspective** data visualization software and **Python** to monitor stock price trends and create trading strategies.
- **MackeUC Hackathon** - Participated in a UC **Hackathon**, collaborating with a team of 2 students to create a NewsWave web-application that allows user to upload the current news and arrange them based on different categories.