Yashi Yadav

Software Developer ● Data Scientist ●

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SKILLS

Languages: Java, SQL, Python, C++, JavaScript (React.js/Node.js)
Platforms: Microsoft D365, Azure, Power Automate
Tools: Git, Linux, MongoDB

EDUCATION

Purdue University, Fort Wayne, Indiana   Expected December 2024
Master of Science in Computer Science

Purdue University, Fort Wayne, Indiana   May 2023
Bachelor of Science in Computer Science
Minor : Mathematics
Honors and Awards: Dean's and Semester's Honors List 2021,2021| Top 50 Award Recipient| Honor's Pin recipient, 2022
Relevant Coursework: Applications of Deep Learning, C and Unix, Database Design and Systems, Analysis of Algorithms, Crypto and Network Security, Operating Systems, Data Structures

WORK EXPERIENCE

Graduate Research Assistant   September 2023 - Present
Purdue University Fort Wayne, IN
- Contributed to dataset creation, steganographic channel implementation, and performance evaluations, targeting leading academic journals for publication.
- Employed Python TensorFlow for neural network modeling, optimizing code for better memory and multi-core performance.
- Applied metrics like PSNR and SSIM to ensure imperceptibility and robustness against external attacks.

D365 Developer Intern   May 2022 – August 2022
Vera Bradley, Roanoke, IN
- Enhanced Microsoft Dynamics 365 by resolving ITR/Bugs backlogs, improving the overall ERP system.
- Designed Power Automate Flows for alerts on 24 critical Batch Jobs in D365, improving system responsiveness and error handling.

PROJECTS

Adaptive Reading Companion(ARC)   Present
- Creating a chrome extension which enables people with Meares Irlen syndrome to read at a faster pace by enabling bionic reading.
- Includes features for other disabilities like font customization, changing background color, enabling focus mode, line spacing, text-to speech, vocabulary assistance.
- The end project aims at allowing the user to highlight certain parts of the text and allow notetaking for the end-user.

Jerry: The Virtual Assistant   Present
- Created a virtual assistant that uses ChatGPT's API keys to communicate and answer end-user's queries.
- The assistant uses voice recognition to interact with the end user.
- Provides answers and results by searching across the internet using Google's API.

ASL Recognition   August 2023-December 2023
Purdue University Fort Wayne, IN
- As a part of the team, the project aims to create a web app which would allow American Sign Language(ASL) recognition for the user.
- In this project, my role involves developing a deep learning model which can recognize ASL in live or uploaded videos.
- Created the database through which the user can access their history.

Hybrid AES 256 Cryptographic Framework for IoMT Devices   January 2023 - April 2023
Purdue University Fort Wayne, IN
- Engineered Encoder and Decoder using AES 256 encryption in Python.
- Employed Image Steganography for advanced data encryption.
- Presented findings at the 2023 Research Symposium at Purdue University.

Production, Data Management, Automation and Usability Prototype   August 2022 - April 2023
Purdue University Fort Wayne, IN
- Secured a $1K scholarship by co-developing a QR code scanning system for InterTech Product Inc.
- Led database integration with MongoDB and Sage 100 accounting software, optimizing data storage and retrieval.
- Built a functional website for sponsors using React.js and Node.js, enabling efficient data exchange.

ACTIVITIES
Member and Volunteer   August 2022-Present
Society of Women Engineers, Purdue University Fort Wayne
- Helped in preparing , planning, and booking housing and travel for the WE'23 National Conference.
- Marketed and advertised for the 18th Annual Opportunity Banquet.
- Presented an interactive project for the WOW! That's Engineering event to generate interest in Engineering and Computer Science amongst girls between the age of 10 and 13.