

MANAS TIWARI

www.linkedin.com/in/manas-tiwari- ◊ Knoxville, TN
manasio.github.io ◊ +1 865-773-2945 ◊ mtiwari@vols.utk.edu

TECHNICAL SKILLS

Programming Languages: C/C++, Python, Java, SQL

Front-end: HTML, CSS, Javascript, ReactJS, Bootstrap

Back-end: Django, NodeJS, PHP, MySQL/PostgreSQL, Rest API

Other tools: Git, Linux, Bash Shell

Certifications: AWS Certified Cloud Practitioner, Microsoft Certified Azure Fundamentals

EXPERIENCE

University of Tennessee — CS Teaching Assistant

Aug 2022 - Present

- Automated the grading system using **Shell Scripting** and **Python**, resulting in a 70% reduction in grading time and boosting grading accuracy by 90%.
- Achieved 30% enhanced computational efficiency through the application of parallel programming techniques with **MPI** and utilization of the **OpenMPI** library.

Cognizant — Programmer Analyst Intern

Apr 2022 - Aug 2022

- Improved software reliability, reduced deployment time by 20% through effective troubleshooting and testing
- Contributed to **60%** improved dev efficiency via practical Microsoft Azure expertise and Azure tools.
- Promoted collaborative software engineering, engaging the team to achieve project goals effectively.

PROJECTS

Sign Language Recognition using Convolutional Neural Network— Machine Learning, CNN

- Developed a Machine Learning model for hand gesture recognition using **CNN** algorithm.
- Utilized **ML** techniques to train the model with images, achieving a high accuracy rate of **96%**.
- Awarded 3rd prize as the best project for the department

Health Club— PHP, MySQL

- Implemented **DBMS** to efficiently store and manage data for registered users and their login credentials.
- Streamlined process by enabling users to register online, resulting in an **80%** reduction in registration time.

Book Store— React, TypeScript

- Created a website using React and Typescript, enabling users to seamlessly browse and interact with a collection of books.
- Developed a real-time cart management system with accurate total price calculation for user transparency.

EDUCATION

University of Tennessee, Knoxville - USA

Masters in Computer Science

Aug 2022 - May 2024

GPA: 3.57/4.00

Acharya Institute of Technology, Bangalore - India

Bachelor of Engineering in Information Science and Engineering

Aug 2018 - May 2022

GPA: 8.56/10.00

Relevant Coursework: Advanced Algorithms, Machine Learning, Computer Networking, Data Structure and Algorithms, Cloud and Edge Computing, Operating System, Compilers