

Manas Tiwari

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EDUCATION	University of Tennessee, Knoxville, TN - USA	May 2024
	<i>Master of Science in Computer Science, GPA: 3.57/4.00</i>	
	Acharya Institute of Technology – Bangalore, India	July 2022
	<i>Bachelor of Technology in Information Science and Engineering CGPA: 8.58/10</i>	
PROFESSIONAL EXPERIENCE	University of Tennessee, Knoxville, TN	Aug 2022 – Present
	<u>Graduate Teaching Assistant</u>	
	<ul style="list-style-type: none">• Demonstrated proficiency in parallel programming with MPI, utilizing the <i>OpenMPI</i> library and optimizing performance through techniques such as <i>GPU acceleration</i> and message-passing optimization, which improved the computational efficiency.• Offered assistance to students in creating optimized C++ code, utilizing tools like <i>GDB</i> and <i>Valgrind</i> to debug and improve performance, and provided constructive feedback to enhance understanding. Implemented an automated grading system resulting in a 90% reduction in grading time.	
	Cognizant Technology Solutions, Bangalore	Apr 2022 – Aug 2022
	<u>Programmer Analyst Intern</u>	
	<ul style="list-style-type: none">• Gained hands-on experience with Microsoft Azure platform, including services such as Azure Functions, Azure DevOps, Azure Active Directory, and other related tools. Assisted with troubleshooting reliability, testing, and deployment of software.• Collaborated with other developers as a software engineer to design and implement a robust <i>CI/CD pipeline</i> for software development lifecycle (DevOps/Agile), ensuring timely delivery of high-quality applications.	
PROJECTS	Sign Language Recognition using Convolutional Neural Network (CNN)	
	<ul style="list-style-type: none">• Developed and implemented a robust system to recognize hand gestures with high accuracy using Convolutional Neural Network (CNN) algorithm.• Trained the model with images using machine learning (ML) techniques, resulting in achieving 96% accurate results.• Awarded 3rd prize as the best project for the department.	
	P&M Health Club	
	<ul style="list-style-type: none">• Design and developed a user-friendly website using PHP and MySQL to support a physical and mental health club. Built a database management system (DBMS) to store and manage data for registered users and their login credentials. Users can save 70% time by registering online. It also interactive UI (product quality) and payment processing enhancing the overall user experience.	
CERTIFICATIONS	AWS Certified Cloud Practitioner, (AWS CCP)	Apr 2022
	<ul style="list-style-type: none">• Knowledge of AWS services, security, cloud architecture including compute, storage, networking, and databases.	
	Microsoft Certified Azure Fundamentals, (AZ 900)	Aug 2021
	Architecting with Google Compute Engine, (Specialization)	Sep 2020
SKILLS	<p>Programming Languages: C/C++, Java, Python, Shell Scripting</p> <p>Technologies: HTML, CSS, JavaScript, React.js, MySQL</p> <p>Operating Systems: Windows 10-11, Linux (Ubuntu 18.04)</p> <p>Hardware: Microcontrollers, RISC/CISC architectures, Interaction with software</p> <p>Software: Version Control (Git/GitHub), Fusion 360 (3D Modeling), Microsoft office (MS Word, Excel, PowerPoint, Outlook)</p>	