Kushal Bhattarai

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EDUCATION

University of Louisiana Monroe   **Expected Graduation: May 2027**
B.S. in Computer Science (Honors)   **GPA: 3.91/4.0**
Relevant Courses: Algorithms**,** Data Structure, Databases (MySQL), Computer Network, Statistics, Discrete Structure, Computer Ethics

RESEARCH AND PROJECT

Research Assistant | Dr. Daniel Hummel | ULM   **Aug 2023- Present**
- Conducted complete data processing and analysis of over 5,000 survey responses using Python (Pandas) for automated cleaning and transformation, and IBM SPSS Statistics for detailed statistical analysis.
- Presented key findings at SECoPA 2024 Annual Conference and the ULM Research Symposium 2024.

Teaching Assistant | University of Louisiana Monroe   **Aug 2025-Present**
- Assisted Ms. Kim Taylor in programming instruction and lab facilitation, supporting coursework in Java.
- Reviewed and evaluated student projects, delivering personalized feedback to strengthen coding proficiency and problem-solving skills.

Full Stack Developer | ACL Injury Prevention and Recovery System   **Nov 2025**
- Developed an AI-integrated sports rehabilitation platform (LA-CLINK) that monitors athletes' movement data to prevent ACL injuries and support personalized tele-rehabilitation programs.
- Built full-stack prototype using React, Node.js, and MongoDB with real-time analytics, wearable integration, and secure user authentication to connect athletes, trainers, and clinicians in one ecosystem.

Data Analyst | E-commerce Data Analysis Project | Python, MongoDB   **Jan 2024- Dec 2024**
- Cleaned and analyzed over 10,000 e-commerce transaction records collected from various U.S states using MongoDB.
- Used Python to create insightful charts and diagrams illustrating sales trends and customer behavior.
- Automated data processing and visualization tasks, reducing analysis time by 35% and upgrading reporting efficiency.
- Identified top-performing states and products, improving decision-making using clarity for business users by 20%.

Programmer | RoboStack | Java   **Nov 2023**
- Integrated a real-time visualization interface for the simulated environment, enhancing debugging capabilities and minimizing development time by approximately 20 hours weekly.
- Implemented command-based operations to move robo improving retrieval efficiency by 35%.
- Designed an optimized stack representation (O(1) time complexity algorithm) to accurately display data states, eliminating visual lag.

SKILLS

Technical Skills: Python, Java, C++, JavaScript, HTML, CSS, MySQL, Node.js

Database & Tools: MySQL, MongoDB, SPSS (stastical Analysis), Microsoft Excel

Cybersecurity & Networking: Wireshark, Linux, Firewall Setup, Microsoft Office Suite, Data Backup, MacOS

CERTIFICATIONS

Google Cybersecurity Certification (**Google**), Getting Started with Cisco packet Tracer (**Cisco**), Introduction to Cybersecurity (**Cisco**), IT Customer Support**(Cisco)**, Networking Basics (**Cisco**), Ethical Hacking Essential(**EC Council**)

ACHIEVEMENT

ULM Research Symposium 2024 | First Place Winner   **March 2024**
- Recognized for outstanding research presentation and analysis conducted under the mentorship of Dr. Daniel Hummel, based on extensive survey data processing and statistical evaluation.