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 Structures, Databases (MySQL), Computer Networks, Statistics, Discrete Structure, Computer Ethics

SKILLS

Technical Skills: Python, Java, C++, JavaScript, HTML, CSS, MySQL, React.js, Node.js, Tailwind CSS
Database & Tools: MySQL, MongoDB, SPSS (Statistical Analysis), Microsoft Excel, AWS, Git, GitHub
Cybersecurity & Networking: Wireshark, Linux, Firewall Setup, Microsoft Office Suite, Data Backup, MacOS

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 the 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-assisted movement-tracking pipeline using Python and sensor integrations to detect abnormal knee patterns related to ACL risk.
- Built a full-stack application 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 the robot, improving retrieval efficiency by 35%.
- Designed an optimized stack representation (O(1) time complexity algorithm) to accurately display data states, eliminating visual lag.

CERTIFICATIONS

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

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.