

# Kushal Bhattarai

(+1) 318-605-1286 Monroe, LA [bhattaraiku@warhawks.ulm.edu](mailto:bhattaraiku@warhawks.ulm.edu) [LinkedIn](#)

## SUMMARY

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Results-driven computer science student with expertise in Python, Java, and OOP, experienced in software development, research, and leadership, with a strong ability to solve real-world challenges. Recognized for academic excellence and leadership in research and student organizations, seeking opportunities in software engineering, AI, or research to apply technical expertise and innovation.

## EDUCATION

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**University of Louisiana at Monroe (ULM)** | Bachelor in Computer Science August 2027  
Relevant Coursework: Python, Data Structure, Calculus, Statistics, Algorithms, 3.95  
Advance Discrete Mathematics, Macroeconomic  
Honors & Awards: First Place at ULM Research Symposium 2024

## EXPERIENCES & LEADERSHIP

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**Emerging Research Scholar | Dr. Daniel Hummel Research Lab | ULM** Aug 2023 - Present

- Conducted research and co-authored a research paper exploring the challenge of free speech in classrooms.
- Analyzed survey data, generating comprehensive visual reports that increased comprehension by 50%.
- Presented research at SECoPA 2024 Annual Conference and ULM Research Symposium 2024.

**Freshman Representative | Nepali Students Association (NSA)** Aug 2023 - May 2024

- Represented 100+ undergraduate Nepali students
- Participated in 1-1 mentoring of board members; active member of the NSA board for program coordination.
- Planned and conducted 4 different events in collaboration with student affairs, increasing participation by 20%.

**Youth Council Mayor | Madhyabindu Municipality** March 2022 - May 2023

- Trained 50+ youths on drug addiction awareness, focusing on prevention and recovery strategies.
- Collaborated with local stakeholders to deliver workshops improving literacy and promoting continuing education.
- Led interactive sessions on parliamentary system, simplifying complex democratic processes for easy understanding.

## PROJECTS

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**Time Wizard | Python**

- Engineered a Python-based application to calculate time differences using OOP principles
- Optimized key OOP concepts such as encapsulation and inheritance for better code structure and reusability
- Implemented error-handling mechanisms, reducing system crashes by 60% , and handling edge cases like AM/PM conversions and day rollovers

**Real Time Dashboard | React | Charka UI**

- Designed and developed a real-time dashboard that improved stock transaction tracking by 40%.
- Integrated a comprehensive support system, cutting down customer queries by 25%.
- Optimized data visualization, enabling faster decision-making with a 50% increase in data accessibility.
- Implemented a responsive design, ensuring 99.9% uptime and seamless performance across devices.

**RoboStack | Java**

- Engineered a simulated environment to manipulate and organize labeled blocks using stack-based data structures.
- Implemented command-based operations to move and discard, and improving retrieval efficiency by 35%
- Designed an optimized stack representation to accurately display the state of both piles without altering their order.

## SKILLS & INTERESTS

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Programming/Data	Python, Java, HTML, CSS, JavaScript, React, Node.js
Tools & Technologies	SPSS, Microsoft Excel, Git/GitHub