

Vaishnavi Lokhande

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RESEARCH VISION

Building **AI systems** that **recover intent and meaning when information is incomplete, inconsistent, or noisy**, with applications in **both healthcare and software engineering**. In healthcare, the goal is to design models that integrate clinical narratives, patient-reported outcomes, and sensor data to better understand post-discharge recovery, going beyond what any single source can express. In software engineering, the aim is to develop AI methods that reason across evolving artifacts requirements, code, and tests to detect conflicts, infer intended behavior, and propose repairs when these sources drift apart.

EDUCATION

University at Buffalo, The State University of New York <i>Bachelor of Science in Computer Science and Engineering</i>	Jan 2025 – May 2026 Buffalo, NY
Arizona State University, Ira A. Fulton Schools of Engineering <i>Bachelor of Science in Computer Science (Transferred to UB in Spring'25)</i>	Aug 2022 – Dec 2024 Tempe, AZ

AWARDS & HONORS

- **University at Buffalo Transfer Scholarship**, merit based award for high GPA, valued at 12,000 USD.
- **Experiential Learning Grant**, competitive research award supported by faculty letter, valued at 800 USD.
- **Dean's List**, Fall 2022–Fall 2024 (five consecutive semesters), awarded for sustained academic excellence.
- **NAMU Scholarship**, a competitive multi-year award, valued at 14,500 USD per year.
- **School Valedictorian (Miss Rosary Title)**, graduating top of class at Rosary Convent High School.

ACADEMIC PROJECTS

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|---|------|
| RecovR, Post-Surgery Recovery Monitoring Platform [code] | 2024 |
| • Developed an iOS/web application integrating patient recovery journals and wearable sensor data. | |
| • Investigated challenges in interpreting fragmented, noisy post-discharge recovery signals for clinical decision-making. | |
| BookTrack Library, Software Systems Academic Project [code] | 2024 |
| • Built a React–Node.js–PostgreSQL library platform, exploring AI-driven search and maintenance workflows | |
| • Analyzed how evolving requirements shape system behavior, motivating AI-assisted software understanding. | |
| The Melting Pot, A Social Computing Platform [code] | 2025 |
| • Designed a culturally inclusive recipe-sharing system in React–MySQL, studying how user intent and feature use evolve over time in socially driven platforms. | |
| Little Star Pediatric Care System [code] | 2024 |
| • Built a JavaFX automation platform with secure authentication, prescription management, and REST data services. Strengthened interests in intelligent healthcare systems through end-to-end design of digital clinical workflows. | |
| Project Ssyn, LEGO EV3 Autonomous Vehicle [code] | 2022 |
| • Designed and programmed an autonomous vehicle using MATLAB to navigate a maze and transport objects safely. | |
| ELI, Post-COVID Classroom Engagement Device | 2022 |
| • Developed an Arduino-based classroom interaction device to improve student engagement during hybrid learning. | |

PROFESSIONAL EXPERIENCE

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|---|---|
| Internship, Department of AI Labs
<i>Brane Enterprises Private Limited</i> | Jun 2023 – Aug 2023
Hyderabad, India |
| • Developed a GPU-based MobileNetV3 system for real-world currency note classification, improving multi-class accuracy from 60% to 89%. Earned a paid return internship offer in recognition of project impact. | |
| Virtual Internship, Salesforce Developer
<i>Smart Internz</i> | July 2023 |
| • Completed 70+ Salesforce modules covering platform fundamentals, org setup, data modeling, and automation. Gained proficiency in Apex development, testing and debugging, Salesforce CLI, and VS Code. | |

CERTIFICATIONS

- Microsoft Certified: Azure AI Engineer Associate** [\[certificate\]](#) Issued July 2025
- Designed and deployed AI solutions using Azure Machine Learning, Azure AI Services, and responsible AI practices.
- Microsoft Certified: Azure AI Fundamentals** [\[certificate\]](#) Issued July 2025
- Demonstrated foundational knowledge of AI workloads, machine learning concepts, and Azure-based AI services.
- Algorithmic Toolbox: University of California San Diego** [\[certificate\]](#) Issued June 2020
- Training in dynamic programming, divide-and-conquer, and greedy algorithms.

TEACHING EXPERIENCE

- Undergraduate Teaching Assistant (Lab TA), CSE 115** Fall 2025 – Spring 2026
- Lead weekly laboratory sessions focused on programming fundamentals and structured problem solving.
 - Mentor students during labs and office hours, emphasizing clarity and debugging strategies.
- Undergraduate Teaching Assistant, FSE 100** 2024
- Conducted weekly lab sessions supporting introductory engineering and computing coursework.
 - Guided students through Raspberry Pi-based projects and hands-on problem solving.
- Undergraduate Teaching Assistant, CSE 412** 2024
- Assisted with database systems coursework, supporting students in relational modeling and SQL concepts.

LEADERSHIP & SERVICE

- Sponsorship Lead, UB Hacking** 2025 – Present
- Co-Chair / Public Relations Chair, ACM UB Chapter** 2025 – Present
- Member, Women in Computing (WiCS)** 2023 – Present