Om Luhar

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EDUCATION

University of Wisconsin-Madison   **Expected Graduation December, 2026**
Bachelor of Science, Computer Science   *Madison, WI*
- **Courses:** Programming I, II, III, Introduction to Computer Engineering, Linear Algebra, Discrete Mathematics, Machine Organization and Programming

SKILLS

- **Certifications:**
  - **AWS Cloud Practitioner:** Fundamentals of AWS services and cloud concepts
  - **Salesforce Certified Associate:** Core CRM platform knowledge and data management
  - **Meta Database Engineer Professional:** Database design, optimization, and SQL/NoSQL expertise
- **Languages:** Java, Python, JavaScript, Bash, HTML, CSS, SQL, NoSQL, C, C++
- **Frameworks/Libraries:** TensorFlow, PyTorch, NumPy, Pandas, OpenCV, Scikit-learn, Flask, React
- **Developer Tools:** Git, Docker, AWS, VS Code, IntelliJ IDEA, JUnit, Makefile, Linux Terminal, Postman

WORK EXPERIENCE

Outlier AI   **Oct. 2024 – Present**
AI Software Engineer   *Remote*
- Designed and optimized AI-driven solutions, improving model accuracy by refining prompt engineering techniques and fine-tuning generative responses for enhanced reliability
- Collaborated with subject matter experts to curate high-quality training datasets, conducted rigorous AI performance evaluations, and implemented targeted algorithmic enhancements

UW Housing Services   **Aug. 2024 – Dec. 2024**
Culinary Assistant   *Madison, WI*
- Assisted with food preparation, inventory management, and maintaining sanitation standards in a high-volume dining facility
- Operated kitchen equipment, stocked supplies, and ensured efficient meal service while adhering to food safety regulations

Voyager Netz   **Jun. 2023 – Jun. 2024**
Software Engineer Intern   *Saint Charles, IL*
- Assisted in enhancing and testing Voyager Netz's enterprise messaging solution by resolving bugs, integrating Python-based modules, and performing QA across mobile and web clients
- Collaborated on a robotics and NLP integration project involving Raspberry Pi and Python, contributing to the development of a web-controlled robot capable of real-time computer vision, QR code detection, and chatbot communication using NLP pipelines built with PyTorch and HuggingFace Transformers

PROJECTS

AI Research Assistant   **May 2025 – Present**
- Developing and training machine learning models using Python for image segmentation and scene understanding, enabling AI-driven augmented reality (AR) interventions that support just-in-time exposure practices for OCD self-management.
- Conducting research at the Mad Ability Lab, collaborating with Ru Wang (PhD Candidate) and Prof. Yuhang Zhao on designing AI-powered AR interventions that integrate core therapeutic strategies (ERP and ACT) to help users disengage from compulsions and enhance accessibility of visual information.

Campus Navigator Application   **Mar. 2025 – May 2025**
- Engineered a dynamic campus navigation application using Java for backend logic, integrating advanced graph algorithms for optimal route calculations and location-based recommendations
- Designed an intuitive frontend with JavaFX, HTML, and CSS, implementing interactive mapping, real-time travel suggestions, and search functionality for enhanced user experience

Vex Robotics Competition   **May 2023 – Mar. 2024**
- Designed, built, and programmed a competitive VEX robot, integrating hardware and software components to optimize performance in autonomous and driver-controlled challenges
- Collaborated with teammates to develop competition strategies, troubleshoot mechanical and coding issues, and refine real-time decision-making for dynamic gameplay