

OLUWASEMILORE GADE

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EDUCATION

University of Massachusetts Lowell

Bachelor of Science, Computer Science

Sep 2025 - Dec 2026

Lowell, MA

• **GPA:** 3.6/4.0

• **Achievements:** UMASS LOWELL X UMASS AMHERST Robotics Symposium - 1st Place Winner, Dean's List, McKinney Ace Award, Flory Honors

• **Coursework:** Data Analysis, Software Engineering, Operating Systems, Algorithms

Bridgewater College

Computer Science

Aug 2022 - May 2025

Bridgewater, VA

PROFESSIONAL EXPERIENCE

UNIVERSITY OF MASSACHUSETTS LOWELL

Information Systems Intern

May 2026 - Aug 2026

Lowell, MA

- Automated the restructuring of 10+ nested folders using PowerShell, flattening complex directory structures to streamline document management and retrieval.
- Developed a Python-based workflow to process over 500 files, extract metadata, and populate Excel spreadsheets, reducing manual data entry and improving data consistency.
- Leveraged e-Builder, Campus Viewer, and 360° imaging technology to document campus infrastructure, visualize assets, and support facilities management across 120+ university buildings.

ASSISTIVE & ROBOTICS ACCESSIBILITY LAB

Robotics Software Research Intern

May 2026 - Aug 2026

Lowell, MA

- Developed a Flutter web interface integrated with REST APIs to enable real-time robotic camera streaming and object detection for assistive robot research.
- Implemented browser-based controls that improved accessibility for researchers by enabling remote interaction with assistive robots through a unified interface.
- Collaborated with a 9-member multidisciplinary research team to design, test, and validate robotics software for assistive technology applications.

BRIDGEWATER COLLEGE

Research Intern

Jan 2025 - May 2025

Bridgewater, VA

- Designed and implemented Java algorithms to convert integers between binary and negative-base (base -2) representations, enabling accurate encoding of signed integers.
- Analyzed computational complexity, demonstrating $O(n)$ runtime comparable to conventional binary conversion while evaluating algorithmic trade-offs.
- Optimized algorithm performance through iterative code reviews and testing, reducing execution time by approximately 15%.

PROJECTS

Assistive Robot Web Interface

- Developed a browser-based interface using Flutter, ROS 2, and REST APIs to enable real-time visualization and control of a Stretch assistive robot, integrating live camera feeds and object detection to support human-robot interaction.
- Integrated robot operating software, depth cameras, computer vision, and web-based visualization into a unified robotics system, enabling multimodal interaction and real-time robot monitoring.

MYLES – Full Stack Travel Planning Application

- Engineered and deployed a full-stack travel planning application using 8 technologies (Vue.js, Express.js, Node.js, MongoDB Atlas, Firebase Authentication, Tailwind CSS, Render, and Vercel), delivering 100% cloud-hosted user authentication and persistent data storage.
- Integrated the National Park Service API to provide access to information from 400+ U.S. National Park Service sites, while implementing RESTful APIs and MongoDB schemas to support secure trip planning and user account management.

SKILLS

Programming Languages: Java, Python, C++, JavaScript, SQL, Dart, R

Technologies: ROS 2, REST APIs, Computer Vision, Object Detection, API Integration, HTML/CSS, Git, GitHub

Databases: SQL, MONGO DB

Frameworks & Libraries: Vue.js, Express.js, Node.js, Flutter, Tailwind CSS, Firebase Authentication, Mongoose

Tools & Platforms: Linux (Ubuntu), VS Code, Vercel, Render, Figma, PowerShell, SharePoint, e-Builder

LEADERSHIP

University of Massachusetts Lowell

Orientation Leader

May 2026 - Aug 2026

- Mentored 50+ incoming students per orientation session and collaborated with university staff to coordinate orientation programming for 200+ new students.

Bridgewater College

Resident Advisor

Aug 2023 - May 2025

- Supported residential operations serving 500+ students across 6 residential buildings by promoting student safety, resolving conflicts, organizing community programs, and participating in emergency on-call rotations.