

Abishek Lwagun

S O F T W A R E
D E V E L O P E R
I N T E R N



Mankato, Minnesota



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OBJECTIVE

Motivated Computer Science student with a strong foundation in C++, Python, Java, and Go. Experienced in building innovative web applications, developing APIs, and optimizing system performance. Passionate about leveraging technology to solve real-world problems and improve user experiences. Skilled in modern development frameworks and methodologies, with a strong focus on efficient, scalable solutions. Eager to apply my technical skills in software development and contribute to impactful projects through a challenging internship opportunity.

EDUCATION

Bachelor of Computer Science

Minnesota State University, Mankato | Mankato, MN | Aug 2026

Relevant Coursework: Control Systems, Object-Oriented Programming, Software Engineering, Data Structures, Algorithm, Embedded Systems, Robotics, Databases, Web Development

SKILLS

C, C++, Python, JavaScript, Java, Go, Closed-Loop Control, Embedded System Development, Bipedal Robot Control, Multi-DOF Robotic Systems, Sensor Integration (IMU, Force Sensors), Node.js, React.js, REST APIs, Git, GitHub, MATLAB, Simulink, Figma, Adobe XD, MySQL, MongoDB, Agile Methodology, Object-Oriented Programming (OOP), Algorithm, Data Structure, Linux, MIPS, React Native, Mobile Application Development, Machine Learning

EXPERIENCE

Web Developer

Freelancer | Remote | Feb 2022 - May 2023

Fiverr

- Developed and integrated RESTful APIs using Node.js and Python for a German startup, streamlining backend processes, improving data flow, and optimizing system performance for better user experience.
- Collaborated with clients to build responsive, scalable web applications, focusing on high-performance architecture, enhanced security, and intuitive user interfaces to meet specific business needs.
- Engineered digital forms and automated APIs to streamline internal workflows, resulting in reduced manual effort and improved data accuracy, boosting client operational efficiency.
- Employed Agile methodologies to deliver projects on time, coordinating with cross-functional teams and iterating quickly based on client feedback, ensuring customer satisfaction and seamless project execution.

PROJECTS

AI Face Mask Detection System (Teachable Machine & ml5.js)

- Developed a real-time AI system for detecting face masks using Teachable Machine and ml5.js, enabling webcam-based mask classification.
- Integrated a pre-trained CNN model to classify and provide real-time feedback on mask status.
- Utilized p5.js for video capture and rendering, ensuring smooth and responsive interaction.
- Built the web interface with HTML/CSS/JavaScript, optimizing performance for live detection with high accuracy.

Autonomous Robotic Arm with Embedded Control System

- Designed and developed an autonomous robotic arm with embedded controllers to perform simple object manipulation tasks.
- Implemented a feedback control system using force sensors to allow the arm to grasp and move objects without losing stability.
- Programmed and simulated control algorithms using MATLAB/Simulink and tested them on embedded hardware for real-time execution.
- Optimized the code for the embedded environment to ensure efficient and accurate operation.

Global Coronavirus Tracker

- Built a real-time web application to track global COVID-19 statistics using HTML, CSS, and JavaScript.
- Designed and implemented features to provide live updates on COVID-19 cases globally, demonstrating understanding of data-driven applications.
- Developed and integrated REST APIs to fetch real-time data from reliable sources, enhancing user interaction with live statistics and displaying up-to-date COVID-19 information globally.

HONORS & AWARDS

International Excellence Grant Minnesota State University, Mankato

\$7,500 scholarship for academic excellence

ADDITIONAL TRAINING

- Strong analytical and problem-solving skills, with a focus on performance optimization and scalable solutions.
- Hands-on experience with Agile development, collaborating effectively in cross-functional teams.
- Eager to learn and apply emerging technologies, particularly in software engineering and system architecture.

INTERESTS

- Passionate about software development, focused on solving real-world problems with innovative technologies.
- Active contributor to open-source projects, specializing in software development and system optimization.
- Fun fact: I enjoy solving challenges through code and am always eager to take on new opportunities in software development.

AVAILABILITY

Available full-time for the Summer 2025 internship with the potential for an extended internship in Fall 2025.