Obed Mavungu

(470) -437-6806 | Virginia |obed@vt.edu| LinkedIn: Obed Mavungu |https://bedo-48.github.io/ |

EDUCATION

Virginia Polytechnic Institute and State University   **Blacksburg, Virginia**
Bachelor of Engineering in Computer Science - GPA (4.0/4.0)   May 2024-May 2028

SKILLS

- **Technical Skills:** Python, Arduino, JavaScript, Angular, SQL, Open AI, Prompt engineering, UI/UX design, DevOps, Git, Express, React, Node.js, REST APIs, Cloud development, C++, TypeScript, CSS, HTML
- **Soft Skills:** Teamwork, communication, problem solving, analytical thinking, cross functional collaboration, leadership, project management, decisions analytics, customer service, detail oriented.
- **Certifications:** Angular (SOLOLEARN), web development (SOLOLEARN)

TECHNICAL PROJECTS

AI Powered Website Builder (Skills: Pern Stack, OpenAI API, GPT, Postgres DB, Express, React, Node.js)
- Developed a full stack AI driven website generator using the PERN stack, enabling instant creation of modern, deployable websites from natural language prompts
- Implemented AI workflows to dynamically generate page layout, styling, and generate well-structured content
- Built an editable front-end experience in React, allowing users to customize AI generated sites before deployment
- Designed backed services in Node.js and Express to orchestrate AI requests and persist generated site data in PostgreSQL `

Web Controlled RC Car (Skills: C++, Arduino IDE, HTML, JavaScript)
- Designed and implemented a web-controlled RC car, leveraging a web-based login system for user authentication and control. The car's movements were directed through a web interface, enabling seamless remote operation
- Integrated a web login ensuring restricted access, making it a robust solution for various applications.

The Employee Wages Calculator (Skills: C++)
- Designed a C++ program that automates payroll calculations by reading employee wage data from a text file and computing total earnings based on hours worked. It efficiently processed and formatted the output using file handling and structured display techniques, ensuring accuracy and readability

WORK EXPERIENCE

Auburn University of Montgomery Learning Center   **Montgomery, Al**
Mathematics & Computer Science Tutor   *August 2025 – Present*
- Deliver one-on-one and group tutoring sessions for 20–25 students weekly, contributing to an average 10–20% improvement in exam and assignment performance among returning students.
- Create and maintain a respectful, inclusive learning environment, resulting in consistent 90%+ student return rates for scheduled tutoring sessions.
- Collaborate with staff to track student progress and communicate academic concerns, enabling more targeted interventions and contributing to higher overall student success rates.

Auburn University of Montgomery Library   **Montgomery, AL**
Library Student Support Assistant   *June 2025- August 2025*
- Assisted 300+ students and faculty weekly with research support and resource navigation, leading to faster information retrieval and improved access to academic materials.
- Improved daily library operations by managing check-outs, returns, and shelving, contributing to a 15% increase in efficiency and reduced waiting times
- Monitored and maintained tutoring and study spaces, ensuring 100% daily readiness and improving overall user satisfaction based on informal feedback from students and staff