### **MARY NANSIKOMBI**

**EDUCATION *Bachelor of Science in Computer Science***  *Oregon State University Corvallis, OR Minor in Innovation and Entrepreneurship Expected Graduation date*  **June -** 2025 | **GPA:** **3.72** Honors Roll Winter 2022 – Present

### **RELEVANT SKILLS IT General Controls**: Implemented and managed processes to ensure effective system performance, security, and availability in software projects.

* **Auditing Concepts**: Developed an understanding of financial reporting and external audit processes through various projects and case analyses in innovation management courses.
* **Risk Management**: Experience in troubleshooting and risk assessment during software development and business case analysis projects for successful business product management.
* **Client Interaction**: Liaised with technical and non-technical departments, leading to streamlined processes and improved collaboration.
* **Problem Solving & Prioritization**: Demonstrated ability to identify bugs, improve system efficiency by 30%, and handle multiple projects simultaneously under tight deadlines.
* **Application Controls**: Knowledge of access controls, user authorization, and validation procedures in client-server applications. **COMPUTER SCIENCE AND BUSINESS PROJECTS**
* **Software Testing & Auditing Tools**: Implemented software testing techniques, including unit, integration, and end-to-end tests, using **Jest** and **Cypress** frameworks. Achieved 70% software quality improvement and seamless delivery through continuous integration and deployment (CI/CD).
* **IT General Control Enhancement**: Researched and resolved software bugs through testing, root cause analysis, and troubleshooting, which resulted in a 30% improvement in system reliability. These troubleshooting techniques contributed to managing risks in software delivery.
* **Security and Process Management**: Developed client-server-side technologies using **Node.js** and **PHP** for efficient communication and control validation. Created independent shells through parallel processing and executed subprocesses via shell scripting, improving system call management. **LEADERSHIP AND WORK EXPERIENCE**

**Community Assistant** – Orchard Court Family Housing | **June 2022 – Present**

Acted as a liaison between departments to ensure streamlined collaboration, enhancing decision-making and process efficiency within technical and non-technical teams.

Assisted in risk mitigation during emergencies and maintenance issues, improving community safety and satisfaction.

**Treasurer & Public Relations Officer** – OSU App Club | **Sept 2022 – September 2023** Managed financial processes for reimbursements and auditing the annual budget, ensuring accuracy and compliance with organizational financial goals.

**INTERNSHIPS AI Intern** – AGAID Institute Managed data visualization and model accuracy for **custom AI models**, enhancing understanding of risks associated with inaccurate predictions. Trained and validated datasets using **TensorFlow** and **Pandas**, with a focus on risk mitigation and error reduction, achieving an 86% accuracy rate. Utilized Matplotlib to analyze various prediction models, enabling the selection of the most accurate models based on specific conditions and requirements. **TECHNICAL SKILLS Programming Languages**: C, Python, JavaScript, Node.js, PHP, Bash Shell Scripting, React.js **Frameworks & Tools**: GitHub, Jira, Trello, Jest, Cypress, CI/CD **Platforms**: Linux, Windows, Oracle VM VirtualBox **Data & Visualization**: Pandas, NumPy, TensorFlow, Seaborn, Matplotlib**Audit and Reporting Concepts**: Familiar with audit principles, risk management, IT controls, and financial reporting standards.