

SAMSON TADESSE

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EDUCATION

Southwest Minnesota State University

Bachelor of Computer Science - minor in Data Science

- **Relevant Courses:** Data Structures and Algorithms, Machine Learning, Web Development, Computer Networking, Database Systems
- **Certifications:** AWS DevOps Certified Engineer

WORK EXPERIENCE

System Engineer Intern — SWBC

May 2023 – Aug 2023

- Automated routine tasks using **Python** and **Shell scripting**, reducing system downtime by 15% and increasing team productivity.
- Deployed and maintained **enterprise-level systems**, ensuring smooth operation across five departments, improving efficiency by 10%.
- Collaborated with senior engineers to implement security protocols, strengthening IT infrastructure and enhancing resilience by 20%.
- Optimized network performance, contributing to a 15% increase in data transfer speeds across the organization.
- Provided technical support, improving the IT helpdesk efficiency by 20% through effective troubleshooting and issue resolution.

Web Developer (Volunteer) — Enactus Club SMSU

May 2022 – July 2022

- Developed and launched the official Enactus Club website, boosting online visibility and member engagement by **30%**.
- Integrated **social media feeds** and **event calendars**, increasing user interaction by **20%** and creating a more dynamic user experience.
- Implemented **SEO best practices**, driving a **30%** increase in website traffic within three months.
- Regularly updated website content, maintaining a **98%** uptime and ensuring the platform remained reliable and accessible.

PROJECTS

Manbiluz.com

Django — JavaScript — HTML — CSS

- **Developed and deployed** a responsive e-commerce website for a local coffee business, optimizing the user experience and increasing online sales by **20%**.
- Utilized **Django** for back-end development and **JavaScript** for front-end, ensuring seamless integration of payment gateways and order management systems.

SMSU Restaurant

Django — MySQL — JavaScript — HTML

- **Led back-end development** using **Django** and managed the database with **MySQL**, providing efficient functionality for reservations, order processing, and menu management.
- **Collaborated** with front-end developers to implement a user-friendly interface, resulting in a **30% increase** in operational efficiency for the restaurant.

Stock Price Prediction Model

Scikit-learn — TensorFlow — Python — Matplotlib

- Created a machine learning model using **Scikit-learn** and **TensorFlow** to predict stock prices based on historical data, achieving a **15% improvement** in prediction accuracy compared to baseline models.
- **Visualized** prediction results with **Matplotlib** and **Seaborn**, delivering clear insights to stakeholders.

Blood Donation Safety Analysis

PySpark — SQL — Python

- **Preprocessed and analyzed** the HCV dataset using **PySpark SQL**, applying classification algorithms to predict blood donation safety for Hepatitis C patients.
- Achieved **92% accuracy** in predicting safe donations, providing actionable insights for healthcare professionals.

LEADERSHIP

Lead Web Developer — Enactus Club SMSU

- **Led the development** of the official Enactus Club website, managing a team of developers and increasing member engagement by **30%**.
- **Coordinated timelines** and ensured project delivery within schedule, while also mentoring junior developers.

TECHNICAL SKILLS

Languages: Python, Java, SQL, JavaScript, PHP, CSS

Frameworks & Libraries: React, Bootstrap, Django, TensorFlow, Scikit-Learn, PySpark SQL, jQuery, Tailwind CSS, Node.js

Cloud Computing & DevOps: AWS, Azure, Docker, Kubernetes, CI/CD Pipelines

Tools & Technologies: Git & Version Control, Agile Methodologies, Jenkins, Shell Scripting, Secure Payment Gateways, Real-time Analytics Tools

Machine Learning & Data Science: Machine Learning Model Development, Data Preprocessing, Regression Models, Classification Algorithms, Data Analysis, Data Visualization (Matplotlib, Seaborn), Model Evaluation (Accuracy, Precision, Recall)

Soft Skills: Team Collaboration, Project Management, Problem-Solving, Technical Documentation, Customer-Oriented Support, User Experience (UI/UX) Testing