

PROFESSIONAL SUMMARY

Skilled Software Developer and AI/ML Engineer with a strong foundation in Python, JavaScript, TensorFlow and Flask. Passionate about leveraging technology and creativity to solve real world problems. Proficient in full stack development, machine learning model implementation, API integration and problem solving. Adept at working in multidisciplinary teams, developing scalable applications and applying critical thinking to software challenges. Excited to contribute to innovative AI driven solutions and software development projects.

TECHNICAL SKILLS

- **Programming Languages** | Python, SQL, Shell Scripting, JSON, HTML, CSS.
- **Machine Learning/AI** | TensorFlow, scikit-learn, Pandas, NumPy, model development, optimisation.
- **Full-Stack Development** | Flask, JavaScript, React, API development.
- **Software Development** | Version control (Git), debugging, automation scripting.
- **Data Science & Analytics** | Jupyter Notebook, Pandas, Numpy, data visualisation.
- **Web Development** | Frontend (HTML, CSS, JavaScript), backend (Flask, API integration).

PROJECTS

Criminal Detection & Facial Recognition System

- Developed a real time facial recognition system using TensorFlow and OpenCV to identify individuals from live video feeds.
- Built a Flask based backend for image processing and data storage, integrating with JSON API for seamless communication.
- Applied computer vision technologies for improved accuracy in facial recognition, enhancing security applications.

Healthcare Menu-Driven Application

- Designed and implemented a Python based interactive application to connect healthcare providers, job seekers and patients.
- Integrated Flask for backend functionality, handling user authentication and data storage.
- Developed a user friendly interface with JavaScript and CSS, ensuring seamless interaction and accessibility.

YouTube Clone

- Built a full stack web application replicating key YouTube functionalities, using JavaScript (React) for the frontend and Flask/Python for the backend.
- Implemented Video upload, playback, and streaming services using cloud storage APIs.
- Designed an intuitive UI/UX with responsive layouts ensuring a seamless viewing experience.

Airbnb Clone

- Developed a fully functional property listing and booking website inspired by Airbnb using JavaScript (React) and Flask/Python.
- Integrated PostgreSQL for database management, handling user profiles, listings, and reservations.
- Implemented authentication, search filters and interactive maps to enhance the user experience.

PROFESSIONAL EXPERIENCE

Software Engineering & AI Intern

- Developed full stack web applications including video streaming and property rental platforms.
- Designed and deployed machine learning models for Ai driven applications, enhancing automation and predictive analysis.
- Built secure RESTful APIs using Flask and Django, integrating frontend and backend systems.

Software Developer Intern

African Leadership University | May 2024 - August 2024

- Assisted in debugging and optimising internal software applications.
- Conducted research on Ai-powered education tools to improve student learning outcomes.

Planning committee Member - Health Entrepreneurship Hackathon

African Leadership University | February 2024

- Organised a coding hackathon, mentoring students on software development best practices.
- Provided guidance on AI integration in healthcare applications, helping teams develop impactful solutions.

SOFT SKILLS

- Effective Communication:** Ability to explain complex technical concepts to non-technical stakeholders.
- Problem Solving & Initiative:** Proactive in identifying and resolving issues using data-driven approaches.
- Collaboration:** Experienced in working with cross-functional teams to deliver high-quality data solutions.
- Adaptability:** Comfortable working in fast-paced environments with shifting priorities.
- Commitment to Learning:** Always willing to learn and improve.

EDUCATION

African Leadership University | Kigali, Rwanda

May 2023 – Present

Bachelor of Science, Software Engineering

- An undergraduate academic degree (Bachelor's Degree) awarded for completing a program of study in the field of software production and management through engineering principles with leadership and self directed learning at the forefront of the education.
- Coursework includes full-stack development, algorithms, and data structures with a focus on addressing real world challenges through digital solutions.