

# Habimana Moise

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## PROFESSIONAL SUMMARY

Dedicated Python Developer with hands-on experience building machine learning applications and backend systems. Strong background in developing APIs, working with databases, and implementing AI solutions for real-world problems. Experienced with modern development practices including version control, testing, and deployment. Passionate about creating efficient, scalable applications that solve complex business challenges.

## PROFESSIONAL EXPERIENCE

### Python Developer & Machine Learning Engineer

January 2024 - September 2025

#### Financial Markets Analysis Project

- Built complete machine learning pipeline using Python to analyze financial market data and predict price movements.
- Developed RESTful APIs using FastAPI for real-time data processing and model predictions.
- Created automated web scraping systems with Selenium and BeautifulSoup to collect market data from multiple sources.
- Implemented Django backend services with database integration for content management and user interactions.
- Applied advanced statistical methods including ARIMA time series models for market forecasting.
- Used Git version control for code management and collaboration throughout project lifecycle.

### AWS Machine Learning Developer

May 2025 - September 2025

#### Udacity AI & ML Scholarship Program

- Completed comprehensive training in AWS cloud services and machine learning deployment strategies
- Built end-to-end ML workflows using AWS SageMaker for model training, validation, and production deployment.
- Developed automated data processing pipelines with proper error handling and monitoring.
- Delivered capstone project showcasing best practices for cloud-based AI application development.

### AI Competition Participant

2024

#### AWS DeepRacer Student League

- Developed reinforcement learning algorithms for autonomous vehicle control and optimization.
- Achieved top 10% ranking nationally through systematic algorithm improvement and testing.
- Applied machine learning concepts to solve real-time decision making challenges.

## KEY PROJECTS

### Intelligent Financial Data Platform

- Built full-stack application combining Django backend with machine learning models for market analysis.
- Implemented REST API endpoints for data retrieval, user authentication, and model predictions.
- Designed database schema and integrated multiple data sources using SQL and Python.
- Deployed application with proper error handling, logging, and performance monitoring.

### Real-Time Data Processing System

- Created automated data collection system using Python and web scraping techniques.
- Built FastAPI microservices for handling concurrent requests and data processing.
- Implemented proper version control workflows using Git for team collaboration.

## Core Technical Skills

### Python Development:

- Object-Oriented Programming
- Functions & Data Structures
- NumPy & Pandas
- Error Handling & Testing

### Backend & APIs:

- FastAPI Development
- Django Framework
- RESTful API Design
- Database Integration

### AI & Machine Learning:

- Scikit-learn
- Machine Learning Pipelines
- Statistical Modeling
- Time Series Analysis
- Reinforcement Learning

### Development Tools:

- Git Version Control
- GitHub Collaboration
- Code Documentation
- Debugging & Testing

### Data & Databases:

- SQL Queries & Design
- Data Processing
- Web Scraping
- Data Analysis

### Cloud & Deployment:

- AWS Services
- Model Deployment
- Cloud Infrastructure

## Key Achievements

**Top 10% National Ranking**  
AWS DeepRacer ML Competition

**Scholarship Recipient**  
Udacity AI & ML Program

**Production Deployment**  
Successfully deployed ML models to production

## Languages

- English:** Professional proficiency
- Kinyarwanda:** Native speaker

## Education

### Bachelor of Science

*Computer and Software Engineering*  
2021-2025

### AWS ML Foundations Nanodegree

*Udacity (Scholarship Recipient)*  
2025