Full Stack Python Developer

# WENDIRAD DEMELASH TIKU

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## Professional Summary

A Python Developer with a strong background in Computer Science and Engineering, specializing in web development, AI, and machine learning. Proficient in Python, Django, PostgreSQL, MongoDB, PyTorch, TensorFlow, Git and Docker. Experienced in developing scalable solutions, machine learning models, and automation tools.

## Skills

**Technical Skills**

Python, Django, PostgreSQL, MongoDB, Git, MySQL, TensorFlow, PyTorch, Data Analysis, Data Visualization, Docker

**Software Tools**

Visual Studio Code, PyCharm, Jupyter Notebook

**Soft Skills**

Teamwork, Effective Communication, Problem-Solving, Leadership, Adaptability, Discipline, Collaboration, Time Management, Attention to Detail, Proactive Approach

## Work Experience

**Python Developer** - Turing - USA (Remote) - Nov 2022 - Nov 2025
- Optimized code to enhance processing speeds and reduce resource usage.
- Created and managed training datasets for machine learning and data analysis projects.
- Contributed to team collaboration and quality assurance through reviews.

**Academic and Research Assistant-** Adama Science and Technology University - Adama, Ethiopia - Oct 2023 - Jul 2025
- Provided tutoring and academic support to undergraduate students.
- Organized tutorials, labs, and academic workshops.
- Assisted in grading assignments and lab reports.

**Chief Technology Officer (CTO)** - Backos Technology - Adama, Ethiopia - Sep 2020 - Jan 2024
- Directed technology strategies to align with business goals, fostering growth and innovation.
- Built and led a high-performing technical team, driving collaborative excellence.
- Oversaw the development of cutting-edge technology solutions, enhancing product offerings.

**Full Stack Web Developer** - Adama Science and Technology University, CoEEC - Adama, Ethiopia - May 2022 - Oct 2022
- Led the creation of a store management system to digitize inventory management and enhance operational efficiency.
- Focused on stock balance verification and report analytics with a user-friendly interface.

**Full Stack Web Developer** - Divergent Technology - Adama, Ethiopia - Feb 2022 - Jul 2022
- Developed a comprehensive web solution for AI and Machine Learning education.
- Built features such as blog management and content management using Python/Django and PostgreSQL.
- Managed cloud deployment to ensure scalability and security.

**Fullstack Developer** - Backos Technology - Adama, Ethiopia - Jan 2020 - Aug 2020
- Developed robust and scalable software solutions, incorporating both front-end and back-end technologies.
- Collaborated with designers and product managers to deliver user-centric solutions.

## Education

**M.Sc in Computer Science and Engineering** - Adama Science and Technology University - Ethiopia - Dec 2023 - Jun 2025

- Specializing in *Computer Vision*
- GPA: 4

**B.Sc Dual major in Computer Science and Engineering & Electronics and Communication Engineering** - Adama Science and Technology University - Ethiopia - Oct 2018 - Jul 2023

- GPA: 3.6

## Projects

**FidelGen: Visual Amharic Text Generation Using a Multi-Conditional Diffusion Model**

A diffusion based text to image generation system that uses structured conditioning inputs and parallel cross attention, trained with pixel and OCR losses and a progressive strategy to produce visually accurate and text aligned images for Amharic script.

**FidelGen OCR**

An Amharic OCR system trained on a combination of HUST and synthetic data, designed to recognize characters and words with high accuracy across varied styles and visual conditions.

**GenSyn**

Synthetic text on image data generator tool for creating bulk random synthetic dataset with random text and a random color background image.

**Drought Prediction Using Hybrid CNN-LSTM**

A Python-based drought prediction model combining CNN and LSTM for temporal modeling on preprocessed climate data to accurately forecast drought occurrences in Ethiopia regions.

**Rebuni Media Monitoring System**

Developed a comprehensive system for analyzing social media and broadcast media engagements, supporting strategic decision-making through advanced data analysis.

**YenePay Python SDK**

Created an open-source Python library for seamless YenePay payment integration, demonstrating expertise in Python and version control.

**Postcard Bot**

Designed a Telegram bot for generating digital postcards, showcasing interactive digital solutions using Python and MongoDB.

**SoEEC Store Management System**

Developed a web-based store management system to digitize and streamline inventory processes for Adama Science and Technology University, CoEEC.

**Divergent Technologies Web Solution**

Created a comprehensive web solution for AI and Machine Learning education, focusing on dynamic content management and cloud deployment.

**Tena eTicket**

Built a transport route and ticket administration platform to enhance organization in Ethiopia's transportation.

## Honors and Awards

**Zindi Certificate, Data Science - 2022**
- Earned for significant contributions to data science projects on Zindi, demonstrating expertise in data analysis and machine learning algorithms.

## References

**Will be available upon request.**