

WORKU WONDOSON MENGSTE

DJANGO DEVELOPER • SOFTWARE ENGINEERING STUDENT

Addis Ababa, Ethiopia | +251 963 333 751 | accworku@gmail.com | github.com/worku404 | workuwondoson.vercel.app

PROFESSIONAL SUMMARY

Software Engineering student building production-grade backend systems with Django, Python, JavaScript, React, and SQL databases. Designed and shipped four independent full-stack applications spanning authentication, REST APIs, real-time communication, payment processing, background task workflows, and search infrastructure. Focused on clean data modeling, deliberate architectural tradeoffs, and systems that hold up under real usage rather than demo conditions. Strong in self-directed learning, problem-solving, and clear technical communication.

TECHNICAL SKILLS

Languages:	Python, JavaScript, C++	Databases:	PostgreSQL, MySQL, SQLite
Frontend:	HTML5, CSS3, React, Bootstrap	Background Processing:	Celery, Redis
Backend:	Django, Django REST Framework	APIs & Integrations:	Stripe API, Gemini API, Google OAuth2
Real-Time & Async:	Channels, Daphne, WebSockets, Redis pub/sub	Tools & Deployment:	Git, GitHub, Docker, VS Code
Core Concepts:	OOP, Database Design, Algorithms, Web Architecture	Languages Spoken:	Amharic (Native), English (Intermediate)

FEATURED PROJECTS

NextGen Academy — E-Learning Platform

github.com/worku404/worku-lms |
nextgen...azure.com

Django, DRF, PostgreSQL, Redis, Channels, Daphne, WebSockets, Docker, KaTeX

- Designed and built an independent learning management system covering course catalog, enrollment, instructor content management, progress tracking, notes, dashboards, and an AI study assistant.
- Implemented real-time course chat and live user presence tracking using Django Channels, Daphne, Redis, and WebSockets.
- Built PostgreSQL-backed search indexing and REST APIs; added PDF search, KaTeX math rendering, in-browser code execution, and containerized Docker deployment.

My Shop — Django E-Commerce Platform

github.com/worku404/Online-Shop

Django, Python, SQLite, Redis, Celery, Stripe API, WeasyPrint, Bootstrap

- Built a full-stack e-commerce application with product catalog, cart management, coupon logic, and weighted shipping calculation.
- Integrated Stripe checkout with webhook-based payment verification, automated PDF invoice generation, and admin order management tooling.
- Implemented multilingual support, Redis-backed product recommendation scoring, and Celery background tasks for order and notification processing.

Gold Blog — Django Blog Platform

github.com/worku404/django-blog-platform

Django, PostgreSQL, JavaScript, AJAX, Markdown, Gemini API, Google OAuth

- Built a full-featured blog platform with authentication, publishing/draft workflows, tagging, comments, likes, RSS feeds, pagination, and email sharing.
- Implemented PostgreSQL trigram search for fast typo-tolerant content search alongside Markdown rendering and AJAX-driven interactions.
- Integrated an AI chat assistant, related-post recommendations, and optional Google OAuth2 login.

W-Mark — Bookmarking Application

github.com/worku404

Django, PostgreSQL, Google OAuth2, Image Processing

- Built a bookmarking application with email-based authentication and Google OAuth2 login.
- Implemented image upload handling with automatic thumbnailing, plus user activity tracking.

EDUCATION & CERTIFICATIONS

Addis Ababa Science and Technology University

2024 - Expected 2028

Bachelor of Science in Software Engineering, 2nd Year | *Coursework:* OOP, Data Structures & Algorithms, Database Systems, Web Development, Networks, Software Architecture, Operating Systems.

Certifications & Self-Study: freeCodeCamp Responsive Web Design | O'Reilly Django Web Guide, Learning SQL, Software Architecture, OOP in Python | Self-Study: Django 5 By Example