MIHIRETAB GEBREMESKEL LEMMA
| Phone: +251943952225 | Email: mihiretabgm@gmail.com
| Linkedin: https://www.linkedin.com/in/mihiretab-gebremskel-401647228/

EDUCATION

Bachelor of Science in Software Engineering
Wachamo University, Hossana, Ethiopia *10/01/2019- 07/03/2024*

- Final grade: First Class Distinction with a GPA of 3.41
- Thesis Title: Web-Based Driving License Management System for Haddiya Zone Transport and Road Development Department.
- Related Coursework: Data Structures and Algorithms, Operating Systems, Computer Networks, Object-Oriented Programming, Software Engineering, Artificial Intelligence, Database Systems, Web Programming, Computer Architecture, Mobile Application Development, Human-Computer Interaction, Machine Learning, Software Project Management, Software Testing and Quality Assurance.

DISTINCTION

- Best Project Award – Awarded for top-tier capstone project design and implementation.
- Graduated with first class Distinction.
- Ranked in the top 3 of the software engineering department.
- Recognized for exceptional academic performance and leadership.

PROFESSIONAL EXPERIENCE

co-founder and lead software developer

Webmaster Innovation and Technology Solution (WMIT) – Hossana, Ethiopia
Self-Employed | August 2024 – Present

- Co-founded a technology startup focused on supporting Ethiopian university students through digital learning tools and mock exam simulations.
- Led the development of **webmaster.et**, the company's official platform, which delivers programming tutorials, tech blogs, and learning resources.
- Designed and deployed **wmitexam.webmaster.et**, a student-centric exam platform helping thousands of students prepare for their national exit exams with mock tests and feedback tools.
- Managed full-stack development responsibilities including backend logic, responsive frontend design, and system architecture using modern web technologies.
- Collected and analyzed user feedback to improve platform usability, leading to higher engagement among exam-takers and self-learners.
- Led workshops and mentoring sessions to help students build confidence in programming and digital literacy.
- Played a key role in business planning, community outreach, and scaling platform functionality to reach a wider regional audience.

Backend Officer
National ID Printing Office, Ethio Telecom
Contract January 2026 – Present

- Manage and maintain the backend database infrastructure for the Ethiopian National ID printing system, ensuring seamless operation and data accessibility.
- Oversee the demographic and biographic data of registered individuals, implementing best practices to ensure data integrity and accuracy.
- Ensure system security through the implementation of robust security protocols, safeguarding sensitive information.
- Facilitate efficient workflows for the secure production of ID cards, collaborating with cross-functional teams to optimize processes.
- Monitor and analyze database performance, making data-driven decisions to enhance operational efficiency.

RESEARCH EXPERIENCE

Final Year Project Capstone, in Department of Software Engineering
Title: Web-Based Driving License Management System
Wachemo University, Ethiopia | December 23, 2023 - Jun 29, 2024

- Designed and implemented a digital system to manage driving license issuance, renewal, and verification for the Haddiya Zone Transport and Road Development Department.
- Developed a responsive frontend using React (Next.js) and built a scalable backend with Express.js and MySQL.
- Ensured system reliability, data integrity, and optimized performance for real-world deployment.
- Applied design and prototyping tools including Figma, Photoshop, Visual Paradigm, and draw.io.
- Conducted API testing and debugging with Postman and Insomnia to ensure seamless integration.

Independent Project
Apple Disease Detection Using Deep Learning
Jan 2024 – May 2024

- Led a machine learning project aimed at classifying common apple leaf diseases using image-based data.
- Collected and labeled a dataset of apple leaf images and applied convolutional neural networks (CNNs) for disease detection.
- Trained and evaluated multiple models using Python and TensorFlow, achieving high accuracy in distinguishing between healthy and diseased leaves.
- This project highlighted the real-world potential of AI in agriculture and food security, especially for resource-constrained farming communities.

INTERNSHIP EXPERIENCE

Metroweb Technology Solution, Ethiopia
May 2023 – August 2023
www.metroweb.et

- Gained hands-on experience in professional web hosting, server deployment, and digital infrastructure management.
- Assisted in developing and maintaining custom web applications for clients using PHP, MySQL, and Laravel framework.
- Participated in configuring secure hosting environments, DNS setups, and SSL integrations, gaining insights into web reliability and performance optimization.
- Collaborated with senior developers and support staff in diagnosing issues and deploying updates, improving overall system uptime and client satisfaction.
- This internship strengthened my practical understanding of scalable web architecture, client communication, and technical documentation.

LEADERSHIP AND TEACHING EXPERIENCES

Co-Founder & Lead Instructor
Webmaster Innovation and Technology Solution (WMIT), Ethiopia
September 2024 – Present
www.webmaster.et

- Co-founded and led a startup focused on delivering digital literacy and programming skills to university students across Ethiopia.
- Designed and facilitated online and in-person workshops covering Python, web development, algorithms, and software engineering fundamentals.
- Developed the wmitexam.webmaster.et platform to simulate Ethiopia's national university exit exams, helping thousands of students prepare through realistic mock environments.
- Mentored junior developers and supported learners with technical guidance and career advice, fostering a collaborative and student-centered learning culture.
- Managed curriculum planning, platform content creation, and instructional delivery with an emphasis on clarity, engagement, and accessibility.

Volunteer Instructor & Mentor
Local High Schools and Youth Centers, Hossana, Ethiopia
2022 – 2025

- Organized and led weekend training sessions in basic computer skills and digital literacy for high school students in underserved communities.
- Provided career guidance and motivational mentorship to aspiring university applicants, encouraging them to pursue STEM education.
- Collaborated with local educators to integrate technology into the classroom and facilitate exam preparation through digital tools.

CERTIFICATIONS AND ACADEMIC TRAINING

- Certificate of Completion: Fundamentals of Machine Learning for Healthcare – Coursera (Stanford University)
  Coursera | Online Courses & Credentials From Top Educators. Join for Free | Coursera
- Certificate of Completion: Computational Neuroscience – Coursera (University of Washington)
  Coursera | Online Courses & Credentials From Top Educators. Join for Free | Coursera
- Certificate of Completion: Front-End Web Development – Coursera…
  https://coursera.org/share/2e3440601b095b87c2ebd8d290529a33
- Certificate of Completion: JavaScript – Sololearn
  https://www.sololearn.com/certificates/CT-9NBKQAZM
- Certificate of Best Project Award
  https://drive.google.com/file/d/1JQQk2BP42kBrk6mWhjudTkrVKBVw-yXO/view?usp=sharing
- Certificate: Ethiopian University Exit Exam – UEEE
  https://drive.google.com/file/d/1DxZoY8YZVaT2HnuUgzOQLgDrgq0sRam_/view?usp=drive_link
- Certificate: National Graduate Admission Test – NGAT
  https://drive.google.com/file/d/1Cwrf1J9UzsOr2Xm9mvVUTmZ5K7V0SEXI/view?usp=drive_link

Agile Software Development & Testing Workshop
Wachamo University — Attended: 2024

- Hands-on training in Agile methodologies (Scrum), test-driven development, and collaborative team project work.

Problem-Solving and Critical Thinking *(Real-World Experience)*

- Gained through full-cycle software development and troubleshooting in live systems (webmaster.et and wmitexam.webmaster.et).

Time Management and Self-Motivation *(Entrepreneurship and Volunteering)*

- Balanced project leadership, platform development, and voluntary teaching in local schools while preparing for academic advancement.

VOLUNTARY SERVICE

Digital Asset Management Volunteer
Local Charities and Churches, Hossana, Ethiopia
Jan 2023 – Present

- Assisted multiple community-based charities with the digitization and management of their internal data, financial logs, and media assets.
- Organized cloud storage solutions and provided technical training to local staff on file security and digital collaboration tools.
- Improved operational efficiency by introducing digital documentation practices and simple IT automation tools.

STEM Outreach & Educational Support
Various High Schools in Southern Ethiopia
Sept 2024 – Present

- Volunteered as a mentor and guest instructor for high school students preparing for university entrance and national STEM exams.
- Designed and delivered accessible coding workshops covering web development, basic programming logic, and career guidance.
- Encouraged digital literacy among rural youth by providing hands-on demonstrations and hosting tech-awareness sessions.

Community Exam Preparation Support (via WMIT)
WMIT Startup – National University Exit Exam Platform
2024 – Present

- Offered free access to simulated exams and tutorials through the platform (wmitexam.webmaster.et), benefiting over 500 students.
- Provided one-on-one support and mock testing sessions for underprivileged students lacking institutional support.
- Helped students build confidence and understand the exam structure, improving outcomes in Ethiopia's standardized assessments.

SKILLS
TECHNICAL SKILLS
Programing languages

- Proficient in Python, Java, JavaScript, HTML, CSS, and PHP. Experience with C++ and SQL for database-driven applications.

Web and Mobile Development

- Skilled in building responsive websites and user-centered platforms using React.js, Bootstrap, Node.js, Laravel, and WordPress. Developed mobile apps using Flutter and Android Studio

AI and Machine Learning

- Hands-on experience in implementing machine learning models using TensorFlow and Scikit learn. Built a disease detection system and engaged with biomedical AI research. Familiar with NLP, computer vision, and classification tasks.

Database management

- Proficient in MySQL, Firebase, and MongoDB. Designed and managed relational and non-relational databases in both academic and real-world projects.

Cloud and Hosting

- Practical experience with web hosting, deployment, and DNS management. Worked with platforms like cPanel, AWS (basic level), and Firebase Hosting during internship at Metroweb Technology Solution.

Software Development Practices

- Knowledge of Agile and Scrum methodologies. Strong understanding of version control systems (Git/GitHub), software testing, debugging, and system optimization.

Tools and Frameworks

- VS Code, PyCharm, Jupyter Notebook, Postman, Figma, Adobe XD, UBIAI (for annotation), XAMPP, and Git.

SOFT SKILLS

- Strong **problem-solving** mindset, with a passion for designing solutions that address real-world challenges.
- Excellent **communication** and **team collaboration** skills, gained from teaching, startup work, and volunteering.
- **Self-motivated** and **goal-oriented**, with experience managing multiple roles in startup and academic settings.
- Committed to **lifelong learning,** with a growth mindset and a consistent habit of independent skill development.

LANGUAGE SKILLS

English- Advanced, Amharic- Native