BAHIRU YIMOLAL TIRUNEH

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EDUCATION

Addis Ababa Science and Technology University
Oct 2019 - Jul 2024

BS, Software Engineering(CGPA:3.78/4 Dean Lists).

Relevant Coursework : Artificial Intelligence, Machine Learning, Probability and statistics, Calculus, Operating system, Data structure and algorithms, Computer graphics, Computer architecture and organization, Principles of compiler design.

Udacity
Jul 2022 - Oct 2022

Nanodegree Program, Full Stack Development
Scholarship given by ALX-T(https://www.alxafrica.com)

Lebawi International Academy
Sep 2015 - Jul 2019

High School Diploma
Clubs- Computer Science Club, Techno Team, Model United Nation, Book Club, STEM Club.
Extra Curricular Activities- Lebawi League Organizer, Community Services, Summer Library Intern

WORK EXPERIENCE

Backend Developer | Ilul Tech
May 2023 - Feb 2025

- Developed the ADDIS ETHIO CODERS Management System, managing trainee registrations, progress tracking, course completion, and verifiable certificates, streamlining skill development and national certification efforts.
- Developed a Daily Task Management System to track work progress based on quality, quantity, and time, generating real-time performance reports.
- Created a chat app enabling communication between reception and office heads using React, Node.js and MongoDB.
- Built a House Relocation Management System to assist individuals affected by urban development and natural disasters in finding affordable housing.
- Developed a robust system to address inefficiencies in the distribution of essential commodities for the government organization Called Shemachoch System.

Full Stack Developer | Akaki Kality Sub City Administration
Oct 2022-May 2023

- Developed a reception system allowing District Manager to view reports on services provided.
- Integrated Negarit SMS API for SMS functionality.
- Presented the system to the Deputy Mayor of Addis Ababa City Administration.

SKILLS

SOFT SKILLS
- Collaborative Team-Building
- Creative Problem-Solving

LANGUAGES
- Amharic (Native)
- English (Fluent)
- Geez (Elementary)

PROGRAMMING LANGUAGES
- C++, JAVA, PHP, Python, JavaScript, HTML/CSS, SQL.

FRAMEWORKS AND DEVELOPMENT TOOLS
- Node.js, Express, Flask, MySQL, PostgreSQL, React, Git, Docker, PyTorch, Numpy.

PROJECTS

Advanced NMT for Geez-Amharic Language Transformation
Nov 2024- Jul 2024

- Developed a Neural Machine Translation (NMT) model to improve translation accuracy.
- Implementing cutting-edge Transformer-based Neural Machine Translation (NMT) models, integrating attention mechanisms to significantly improve the system's grasp of complex linguistic subtleties.
- Contributing to the development of a comprehensive training dataset, incorporating data augmentation strategies to address challenges associated with limited labeled data.

Coffee shop full stack
Sep 2022

- Developed digital cafe for students to order drinks, socialize, and study hard using Flask and SQLAlchemy.
- Implemented secure login functionality with third-party authentication (Auth0) on the login page for enhanced user access control.
- Github Link-https://github.com/Bahiru-Yimolal/Project-coffee_shop_full_stack

Trivia API
Sep 2022

- Developed a Trivia API, designing a gaming platform where users engage by answering diverse questions across multiple categories.
- Mastered the creation of well-structured API endpoints and deepened my understanding of HTTP protocols and API development best practices.
- Github Link-https://github.com/Bahiru-Yimolal/Project-Trivia-API

Fyyur
Jul 2022

- Developed Fyyur, a musical venue and artist booking site that facilitates the discovery and bookings of shows between local performing artists and venues.
- Innovated features allow users to list and discover new artists and venues, as well as manage show listings as a venue owner.
- Github Link-https://github.com/Bahiru-Yimolal/Project-Fyyur

Daily Task Management System
Jan 2023

- Designed a backend system to track daily tasks based on quality, quantity, and time.
- Integrated real-time reporting and performance tracking to improve workflow efficiency.
- Project LInk - https://nsldtms.com/

Nifas Silk Lafto Subcity Leaders Profile & Complaint Management System
Apr 2025

- Digitized leader record-keeping and streamlined communication, centralizing profiles, work history, assignments, and promotions.
- Enabled leaders to submit complaints online and receive timely responses.
- Project link: https://nslprofile.nsldtms.com/

ADDIS ETHIO CODERS Management System
Jun 2025

- Project Link-https://aacoders.aaitdb.gov.et/

Server Deployment and Containerization
Aug 2023

- Containerized a Flask API using Docker, optimizing for scalability and portability
- Deployed the containerized Flask API to a Kubernetes cluster using AWS EKS, orchestrated through
- CodePipeline and CodeBuild for streamlined continuous integration and deployment processes.
- Github Link-https://github.com/Bahiru-Yimolal/cd0157-Server-Deployment-and-Containerization

CERTIFICATIONS

- Advanced Learning Algorithms course from Coursera
- Supervised Machine Learning: Regression and Classification course from Coursera.
- Programming Fundamentals form Udacity