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📍 **Home:** Addis Ababa (Ethiopia)

ABOUT ME

My passion for technology and computers led me to pursue a degree in computer engineering, which has been instrumental in my career as a **backend developer** and **DevOps engineer**. With extensive experience in technologies such as **Django, Flask, Node.js,** and **Next.js**, I have developed robust and scalable backend systems that meet the specific needs of clients. Additionally, my proficiency in **DevOps** technologies such as **Git, Docker, Microsoft Azure DevOps, Terraform, Ansible, Kubernetes,** and **Cloud Formation** allows me to design and implement highly **automated and scalable infrastructure** that ensures the systems I develop are **secure, reliable, and performant**. With this unique combination of skills, I can effectively design and implement complex technical systems that drive business success.

WORK EXPERIENCE

Backend and Cloud Developer

Tefer [15/06/2023 – Current]

City: Addis Ababa
Country: Ethiopia
Website: https://www.tefer.io/
Name of unit or department: Software Development - **Business or sector:** Information and communication

As a **Backend and Cloud Developer** in a software development company, I am responsible for a range of tasks related to the **development, deployment,** and **maintenance** of cloud-based software applications. This includes:
- Developing and maintaining **REST APIs** using **Django Rest Framework** to build robust and scalable server-side components for web applications.
- Setting up and configuring cloud infrastructure on **Amazon Web Services (AWS)**, such as **EC2** instances, **Lambda** and databases, to ensure **optimal performance, scalability, and security**.
- Deploying software applications to **AWS** using **Docker containers** for efficient and secure deployments.
- Developing and maintaining **automated testing** and **deployment pipelines** using tools such as **Microsoft Azure DevOps**.
- Use **Terraform** to provision an **EC2** instance on **AWS** with the necessary **security groups and key pairs**.
- Use **Terraform** to create an **Elastic Load Balancer (ELB)** and attach the **EC2** instance created to the **ELB**.
- Use **Terraform** to destroy the **EC2** instance and **ELB**, and clean up any other resources created during the process.
- Configure **Ansible** to install and configure **Nginx** web server on the **EC2** instance created.
- Use **Ansible** to configure the **Nginx** web server with the necessary settings.

Full Stack Developer
Zema Multimedia PLC. [01/01/2023 – Current]

City: Addis Ababa

Country: Ethiopia

Website: https://zemamultimedia.com/

Name of unit or department: Software Development - **Business or sector:** Information and communication

As a **Full Stack Developer** in a software development company, I am responsible for a range of tasks related to the **development, deployment,** and **maintenance** of software applications. This includes:
- Developing and maintaining web applications using **Django Rest Framework** and **React**, with a focus on delivering high-quality digital products that meet user needs and exceed industry standards.
- Participating in the design and implementation of **software architecture** and **design patterns** to ensure that software solutions are **scalable, maintainable,** and **efficient**.
- **Deploying** software applications to cloud platforms such as **Microsoft Azure** and **Google Cloud Platform**, ensuring that applications are delivered efficiently and securely.
- Participating in the development of **technical documentation**, such as **user manuals** and **technical specifications**, to ensure that software solutions are well-documented and easy to understand.

Backend Developer
Kin Ideas PLC. [01/06/2022 – 20/01/2023]

City: Addis Ababa

Country: Ethiopia

Website: http://www.kinideas.com/

Name of unit or department: Software Development - **Business or sector:** Information and communication

As a **Backend Developer** and **DevOps Engineer** in a digital solution provider company, I was responsible for a range of tasks related to **developing** and **maintaining** backend software applications and ensuring **efficient** and **secure** delivery of these applications. This includes:
- Developing and maintaining **REST APIs** using **Django Rest Framework** for web and mobile applications.
- Designing and implementing **database schemas** using **PostgreSQL** to ensure efficient data storage and retrieval.
- **Deploying** software applications to cloud platforms, such as **Google Cloud Platform (GCP)**, using **Docker containers**.
- Implementing **DevOps** practices, such as **continuous integration and delivery**, to ensure that software applications are delivered **efficiently** and **securely**.
- **Managing** and **monitoring** cloud infrastructure using tools such as **Firebase** and **GCP**.

Software Developer
GAMD Solutions [02/01/2022 – 28/05/2022]

City: Addis Ababa

Country: Ethiopia

Website: https://gamdsolutions.com/

Name of unit or department: Software Development - **Business or sector:** Information and communication

As a **Software Developer** at a digital solution provider company, I was responsible for a range of tasks related to the development of software applications. This would include:
- Participating in the development of software applications using **Python, Flask,** and **Django**.
- Participating in the **testing** and **debugging** of software applications to ensure that they are free of errors and meet company standards.
- Participating in the development of **technical documentation**, such as **user manuals** and **technical specifications**, to ensure that software solutions are well-documented and easy to understand.
- Participating in the development of **software architecture** and **design patterns** to ensure that software solutions are **scalable** and **maintainable**.

Junior Software Developer
Orange Digital Center Ethiopia [25/05/2021 – 12/11/2021]

City: Addis Ababa
Country: Ethiopia
Website: https://www.orangedigitalcenters.com/
Name of unit or department: Coding School - **Business or sector:** Information and communication

As a **Junior Software Developer** Intern in a software development company, I was responsible for a range of tasks related to **designing, developing, testing,** and **maintaining** software applications. This would include:
- Developing software applications using programming languages such as **JavaScript** and **Python**.
- Collaborating with other developers to write **clean, maintainable,** and **efficient code**.
- Participating in the development of **technical documentation**, such as **user manuals** and **technical specifications**, to ensure that software solutions are well-documented and easy to understand.
- Participating in **Agile development** methodologies, such as **Scrum**, to ensure that software development projects are completed in a timely and efficient manner.

IT Support Officer Assistant
National Bank of Ethiopia [01/02/2021 – 27/04/2021]

City: Addis Ababa
Country: Ethiopia
Website: https://nbe.gov.et/
Name of unit or department: Information Systems Management Directorate - **Business or sector:** Information and communication

As an **IT Support Officer Assistant** Intern in a **bank**, I was responsible for a range of tasks related to ensuring the smooth functioning of the bank's computer systems. This includes:
- **Troubleshooting** computer issues, both **hardware** and **software** related, and resolving them in a timely manner.
- **Installing, configuring,** and **updating** software applications on computers and other devices used by bank employees.
- **Monitoring** and **maintaining network** and computer system performance to ensure that they are running at optimal levels.
- Conducting **routine maintenance** tasks, such as **system backups** and **security checks**, to ensure that computer systems are running smoothly.
- Participating in IT projects, such as **system upgrades** or **migrations**, to ensure that they are completed successfully and in a timely manner.

EDUCATION AND TRAINING

AWS Cloud Practitioner
ALX [08/05/2023 – Current]

City: Addis Ababa
Website: https://www.alxafrica.com/
Field(s) of study: Information and Communication Technologies: *Software and applications development and analysis*

During my ALX **AWS Cloud Practitioner** course, I gained a comprehensive understanding of core **AWS** and **cloud computing services**, including:
- Knowledge of core **AWS** and **cloud computing services**, including **use cases**, **data security**, **billing** and **pricing models**.
- Understanding of how software and hardware systems bring business visions to life.
- Navigating the **architecting** and **deployment** of applications within **AWS** platforms.
- Developing plans for the adoption of cloud solutions.
- **Management** and **monitoring** of cloud platforms.

Electrical and Computer Engineering (Computer Engineering Focus Area)
Jimma University [01/10/2016 – 23/02/2021]

City: Addis Ababa
Country: Ethiopia
Website: https://ju.edu.et/
Field(s) of study: Engineering, manufacturing and construction: *Engineering and engineering trades not further defined*
Final grade: 3.60 – **Level in EQF:** EQF level 4
Type of credits: ECTS

An **Electrical and Computer Engineering (Computer Engineering Focus Area)** university course is designed to provide students with a strong foundation in the principles and practices of computer engineering. This area of study focuses on the **design, development,** and **application** of computer systems and technologies. The course curriculum typically covers a wide range of topics, including:
- **Digital logic design** and **computer architecture**
- **Database systems**
- **Data Structure** and **Algorithms**
- **Object Oriented Programming with Java**
- **Software engineering** and **design patterns**
- **Artificial intelligence** and **machine learning**

DIGITAL SKILLS

Cloud Service Providers
Amazon Web Service / Microsoft Azure / Google Cloud Platform

Programming Languages
Python / JavaScript / TypeScript

DevOps
Git / Docker / Microsoft AzureDevOps / Terraform / Ansible / Kubernetes / Cloud Formation

Database
PostgreSQL / MySQL / MongoDB / DynamoDB

Frameworks
Django/Django REST Framework / NodeJs (ExpressJs) / Flask Web Framework / NextJs

PROJECTS

StableDuel Social Gaming Platform
[15/06/2023 – Current]

StableDuel is a unique app that offers horse racing fans a peerless **social gaming platform** featuring an exciting **betting system**. Users can place bets on their selected horses against other users, making it the most thrilling game for new and traditional fans alike. The system is built using **Kotlin, Swift, Django,** and **Python** and uses **PostgreSQL** as its database. It uses **Celery** for multi-threading process and **Redis** for caching, all of which are integrated into a **Monolithic Architecture**. The app is containerized using **Docker** and deployed on **Amazon Web Services**, with **Microsoft Azure DevOps** used for **CI/CD** and **Repository**. **Terraform** is used for **Infrastructure as a code**, and **Ansible** is used for **configuration as code**, ensuring seamless deployment and configuration of **AWS** resources. The app is available on the **App Store**. As a **backend developer** and **Cloud developer**, my role involves developing and maintaining **REST APIs**, managing the cloud infrastructure, and writing **Terraform** and **Ansible** code for seamless deployment and configuration of **AWS** resources. I am also responsible for **DevOps** tasks, ensuring that the app is always up-to-date and running smoothly for users. The StableDuel app is a unique and exciting experience for horse racing fans, and I am proud to be part of its development and maintenance.

Links: https://apps.apple.com/app/apple-store/id1466583512 | https://stableduel.com/

Leza Award Voting Platform

[08/05/2023 – Current]

The **Leza Award Voting Platform** is a cutting-edge project that I am developing as a **backend developer** and **DevOps Engineer** for the music and film industry. This **full-stack** web application allows users to vote for their favorite candidates in different competition categories, with real-time updates on candidate status and overall results. I have made sure that the system is highly secure, incorporating **machine learning algorithms** to ensure that each user can only vote once per category. As the **backend developer** and **DevOps engineer**, my role in this project is critical. I am responsible for all aspects of the application's **backend development** and **cloud infrastructure** tasks, utilizing a **monolithic architecture**, building the system using **Django, Python**, and ensuring reliable and efficient data storage and retrieval with **PostgreSQL**, **Celery**, and **Redis**. The system includes mobile apps for both **Android** and **iOS** users, supports **SMS voting**, and is available on the **Ethio Telecom Telebirr superapp**. Finally, I have hosted the system on **Azure**, providing a secure and reliable cloud hosting environment, and my expertise in **backend development** and **DevOps engineering** has been instrumental in creating this innovative and user-friendly voting platform for the music and film industry.

Zema Multimedia Online Streaming Platform

[01/01/2022 – Current]

Zema Multimedia is a mobile application designed as an **online music, podcast, and radio streaming platform**, similar to Spotify. The system is built using a range of tech stacks including **Flutter**, **Django**, **Python**, **ReactJs**, **NodeJs**, and **JavaScript**. It is deployed on both **Microsoft Azure** and **Google Cloud Platform**, making it a **multi-cloud app** with reliable and fast access to user content. The system uses a **Microservice Architecture** that allows for easy scalability and flexibility, **PostgreSQL** as its database management system, and **Docker** for containerization to ensure efficient data management and deployment. As a **backend developer** and **DevOps engineer**, my role involves managing the **REST APIs** and Cloud infrastructure in both **Azure** and **GCP**. The app is available on both the **App Store** and **Play Store** and features **telebirr local payment** integration, **PayPal international payment** integration, and can be accessed via the **Ethio Telecom Telebirr superapp** for added convenience.

Links: https://play.google.com/store/apps/details?id=com.zema.music.player&hl=en&gl=US | https://apps.apple.com/us/app/zema-multimedia/id6446139809 | https://play.google.com/store/apps/details?id=cn.tydic.ethiopay&hl=en&gl=US

TIN Checker Web App

[02/01/2022 – 28/05/2022]

The **TIN Checker** is a **full-stack** web application that provides detailed information about taxpayers using their Taxpayer Identification Number (TIN) as input. Built using Flask, **HTML, CSS**, and **Bootstrap**, this user-friendly web app is designed for efficient data retrieval and management. The application uses **PostgreSQL** as its database management system, ensuring reliable and accurate data storage and retrieval. It is built on a **Monolithic Architecture** and is hosted on a shared hosting environment called **Hahu Cloud**. As the sole developer of this project, I was responsible for all aspects of the application's development, including designing, coding, testing, and deployment. By leveraging my **full-stack** web development skills, I was able to create a robust and intuitive solution for retrieving and managing taxpayer information.

Link: https://tinchecker.gamdsolutions.com/

LANGUAGE SKILLS

Mother tongue(s): **Amharic**

Other language(s):

English

LISTENING B2 **READING** C1 **WRITING** B2

SPOKEN PRODUCTION B2 **SPOKEN INTERACTION** B2

Levels: A1 and A2: Basic user; B1 and B2: Independent user; C1 and C2: Proficient user

HOBBIES AND INTERESTS

Coding

Allows me to create, problem-solve, and continuously learn and grow.

Reading

Helps me to escape, gain knowledge, and de-stress.

Music

Helps me to express myself creatively, connect emotionally with others, and find stress relief and relaxation.

Travelling

Allows me to explore new places, learn about different cultures, and gain personal growth through new experiences.

COMMUNICATION AND INTERPERSONAL SKILLS

Active listening

Active listening is the ability to fully concentrate, understand, and respond to what is being said in a conversation. It is a key component of effective communication and helps to build trust and establish healthy relationships.

Empathy and Emotional Intelligence

Empathy and emotional intelligence involve understanding and responding to emotions, and are essential for effective communication and building strong relationships.

Teamwork and Collaboration

Teamwork and collaboration involve working effectively with others towards a common goal, leveraging each other's strengths, and communicating openly and respectfully.

Leadership and Management

Leadership and management involve guiding individuals or teams towards achieving a shared goal, while also adapting to changes in the environment. These skills require strong communication, decision-making, problem-solving, and interpersonal skills, and are essential for achieving personal and professional success.

HONOURS AND AWARDS

Recommendation Latter

National Bank of Ethiopia [02/06/2021]

A recommendation letter from the National Bank of Ethiopia is a prestigious recognition of an individual's exceptional performance, dedication, and contributions to the bank's mission and goals. This is a significant honor that speaks to the recipient's professional achievements as well as their ability to work collaboratively with others and consistently deliver high-quality work.