

## DAGNACHEW MEKONNEN MARILIGN

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### Software Engineer

Skilled software engineer focused on Java-based technologies, with hands-on experience in the design and development of software solutions. Strengths in design, implementation, and testing of complex technical applications, writing clean code which results in the delivery of high-performing solutions with excellent scalability, and maintainability. Expertise in a wide range of technologies including Java, C++, JavaScript, Spring frameworks, C#, ASP.Net MVC, Hibernate, SQL & no-SQL DBs, Webservices, Design Patterns, and Software architectures.

### PROFESSIONAL SKILLS

**Programming Languages:** Java, C++, JavaScript, PHP, SQL, python

**Databases:** SQL, MongoDB, MS Access

**Frameworks:** Spring, Hibernate, Mockito, Angular, React Js, Jset, Junit

**Web Services:** RESTfull, MicroServices, SOAP

**Web/App Servers:** Apache Tomcat, Oracle WebLogic

**Tools:** IntelliJ, Eclipse, Visual Studio, Maven, Postman, Docker, Swagger, StarUML, Kafka, BitBucket, Jira, JMeter, Blaze meter

**Platforms:** Windows, Linux

**SDLC:** Agile-Scrum, DevOps

### PROFESSIONAL EXPERIENCE

**CNET Software Technologies Plc • From January 2014- ongoing**

Software and System Development Company in Ethiopia and have multiple branches in the country.

**Address:**

Street: Tito St., Addis Ababa, Ethiopia.

Phone: +251-115570734

Website: <https://www.cneterp.com/>

**Position:** Software Engineer

My specific responsibilities included designing, building, and maintaining Java-based applications and websites, contributing to software and architectural development activities, developing scalable, efficient, and testable code, also conducting software analysis and debugging issues.

## **PROJECTS**

### **1. Restaurant Management System Development.**

The project is aiming to create a software solution for restaurants to manage their operations efficiently. The system included features such as menu creation, order management, inventory tracking, and reporting to streamline the restaurant ` experience. The project involved software engineers, designers, and clients collaborating to develop a robust and user-friendly system.

Responsibilities:

- Developing the system's backend includes features such as data storage, retrieval, and manipulation.
- Developing user interfaces that are intuitive, user-friendly, and aesthetically pleasing.
- I conduct Unit, integration, functional, and performance testing.
- Troubleshooting and debugging issues that arise during development and testing.

Technologies Used:

Java 11, Javascript, SQL, React Js, Spring, Hibernate, Jset, Junit, TestCafe, JMeter Visual Studio Code, IntelliJ

### **2. A Comprehensive CRM System Development for Wellness Centers.**

The project aims to develop a comprehensive CRM system for wellness centers to manage customer relationships, appointments, and services efficiently. The system will provide tools for appointment scheduling, customer profile management, and billing, allowing wellness centers to improve customer service and streamline operations.

Responsibilities:

- Develop the back end of the system's Appointment Scheduling & Waitlist Management Module.
- Develop interactive and responsive UI for the staff scheduling module of the system.
- I conduct Unit, integration, functional, and performance testing.
- Troubleshooting and debugging issues that arise during development and testing.

Technologies Used:

Java 11, Javascript, SQL, React Js, Spring, Hibernate, Jset, Junit, TestCafe, JMeter, Visual Studio Code, IntelliJ

### **3. Cinema Management System Integration**

The project involves integrating a cinema management system with an online ticket issuing and seat reservation system, allowing customers to purchase and reserve movie tickets online.

Responsibilities:

- Design and implement the UI of the Ticketing Issuing, Seat Reservation, and Showtime Management Module of the system.
- Defining the requirements and user stories for the Admin Panel Module.
- Developing the server-side code for managing user roles and permissions, system configuration, and other administrative tasks.
- Creating APIs for accessing and updating the system data from the Admin Panel.
- Troubleshooting and debugging issues that arise during development and testing.

Technologies Used:

Java 11, Javascript, SQL, React Js, Spring, Hibernate, Jset, Junit, TestCafe, JMeter, Visual Studio Code, IntelliJ

### **4. Existing Hotel ERP System Maintenance**

The Existing Hotel ERP System Maintenance project involves the maintenance and enhancement of the current ERP system used by a hotel to manage its operations and processes.

Responsibilities:

- Design and implement the UI of the Business Intelligence (BI) module of the system.
- Integrate BI module with the existing system
- Creating APIs for accessing and updating the system data from the Admin Panel.
- Troubleshooting and debugging issues that arise during development and testing.

Technologies Used:

Java 11, Javascript, SQL, React Js, Spring, Hibernate, Jset, Junit, TestCafe, JMeter, Visual Studio Code, IntelliJ

### **5. Inventory Management System Development**

The Inventory Management System Development project aims to create a software solution for businesses to manage their inventory efficiently. The system includes features such as stock tracking, order management, purchase management, and reporting to streamline inventory

processes and reduce waste. The project involves collaboration among software engineers, designers, and clients to develop a user-friendly and customizable system.

**Responsibilities:**

- Design and implement the backend of the following module of the system: Stock tracking, Order Management, Purchase Management, and Barcode scanning.
- Design and Develop UI for the User Management module of the system.
- Troubleshooting and debugging issues that arise during development and testing.

**Technologies Used:**

Java 11, Javascript, SQL, React Js, Spring, Hibernate, Jset, Junit, TestCafe, JMeter, Visual Studio Code, IntelliJ

## **6. Tender Management System Development**

The project aims to create an automated platform for managing the entire tender process, from issuance to awarding, with a focus on increasing efficiency, transparency, and accountability. The system will include features such as tender issuance and publishing, document management, bidder registration and submission, evaluation and scoring, and awarding of the contract.

**Responsibilities:**

- Develop and implement the backend system of the following module of the system: Tender creation and Publication, Bid Submission and Evaluation, User Management and Authentication, Vendor Registration and management, Contract management, Report and Analytics
- Design, Develop and implement UI for the following module of the system; Tender Creation and publication, Vendor Registration and Evaluation, User Management module and Authentication
- Troubleshooting and debugging issues that arise during development and testing.

**Technologies Used:**

Java 11, Javascript, SQL, React Js, Spring, Hibernate, Jset, Junit, TestCafe, JMeter, Visual Studio Code, IntelliJ

## **IT CERTIFICATIONS**

- Complete JAVA SE 8 Developer BootCamp from Udemy

## **EDUCATION**

### **Bridging Program**

**(October 2021- Dec 2022)**

HiLCoE School of Computer Science and Technology College – Addis Ababa, Ethiopia

The course is offered in the evening and weekend programs for students who are interested in computer and related fields but do not have a background in computer science.

**GPA 3.76**

### **MSc Software Engineering**

**(January 2023 – On going)**

HiLCoE School of Computer Science and Technology College – Addis Ababa, Ethiopia

The course is offered in the evening and weekend programs for students who are interested in computer and related fields but do not have a background in computer science.

### **Bachelor of Science in Civil Engineering**

**(Sep 2008- June 2013)**

Adama Science and Technology University – Adama, Ethiopia

GPA 3.77 (With Very Great Distinction)

## **PROFESSIONAL TRAINING**

- Data Structure and Algorithm on Udemy by Goran Lochert

The training is about data structures and algorithms in Java and topics include Arrays, Linked Lists, Trees, Hashtables, Stacks, Queues, Heaps, Sort algorithms, and Search algorithms.

- Complete web development on Udemy by Dr. Angela Yu

Training includes full stack development.

- The complete JavaScript course on Udemy by Jonas Schmedtmann

Training includes modern JavaScript (ES6+) with asynchronous JavaScript and deep dive into object-oriented programming arrow functions, destructuring, spread operator, default arguments, optional chaining, and more.

## **HONORS**

- **Honor Student of the year**, Adama science and Technology University in 2009.