

Yonas Alem

Software Engineer

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Profile

Experienced and adaptable Software Engineer with a proven track record in computer science and programming. Over the past 5 years, I have specialized in developing robust platforms for the Payment and gaming industries, showcasing my ability to deliver high-quality solutions. Additionally, I hold an AWS Certified Cloud Practitioner certification, demonstrating my expertise in cloud technologies. With a diverse background in DevOps, I bring a well-rounded skill set to the table. Committed to continuous learning and staying up-to-date with industry trends, I am ready to contribute my technical prowess and problem-solving skills to your organization.

Professional Experience

affiliate.com(Remote), Fullstack Developer

02/2023 – 08/2023

- Successfully designed and implemented user interfaces using React
- Migrated a legacy API from PHP to Node.js, leveraging TRPC for enhanced performance
- Developed scripts to store and generate reports, utilizing Google Cloud Storage for secure storage
- Implemented functionality to send download links for the reports and enable easy sharing
- Conducted thorough testing to ensure data integrity between the new reports and the legacy version

Mereb Technologies, FullStack Developer

03/2022 – present

Addis Ababa, Ethiopia

- Testing Server written using golang using testing packages
- setup multiple Database configurations
- develop Server using golang-grpc-protocol buffer
- Integrate the system using react and envoy proxy

- Implement pre-commit hooks
- set up circle-ci and GitHub action for CI/CD
- Deploy Modules and changes to AWS
- write python scripts to backup everyday data to s3 and delete. when the storage is full and get data when needed.
- write bash scripts for databases dumping splits and change to sqlite which is one of tricks to increase performance of servers besides optimizing queries which makes us able to cut 40% of server cost. Tested a server written in Golang using testing packages to ensure the correctness and functionality of the code
- Configured multiple database configurations to support different environments and scenarios
- Developed a server using Golang-GRPC-Protocol Buffer for efficient communication and data serialization
- Integrated the system with React and Envoy proxy for seamless communication and routing
- Implemented pre-commit hooks to enforce code quality and best practices before committing changes
- Set up CircleCI and GitHub Actions for continuous integration and continuous deployment (CI/CD)
- Deployed modules and changes to AWS for production use
- Wrote Python scripts to perform daily backups of data to Amazon S3 and manage storage capacity by deleting old backups when necessary. The scripts also facilitated easy retrieval of data when needed
- Developed Bash scripts for database dumping, splitting, and migration to SQLite, optimizing query performance and reducing server costs

Eaglelion Systems Technology, *Frontend Developer*

03/2021 – 03/2022
Addis Ababa, Ethiopia

- Convert Adobe XD designs to HTML: Begin by converting your Adobe XD designs to HTML. This involves extracting the necessary elements, such as images, text, and styles, and structuring them using HTML and CSS.
- Set up a React and Next.js project: Create a new React project using the Next.js framework. Next.js provides server-side rendering (SSR) capabilities and simplifies the development of React applications.
- Create React components: Break down your HTML code into reusable React components. This allows you to efficiently manage and maintain your user interface.

- Integrate frontend with backend APIs: Connect your frontend user interface to the backend APIs. Use libraries like axios and also Ajax to make HTTP requests to the backend and retrieve data for display on the frontend.
- Optimize performance: Ensure that the performance of your web application is good by using tools like Lighthouse and GTmetrix. These tools will analyze your application's performance metrics and provide suggestions for improvement.
- Write test case documents: Document the test cases for your web application to assist other testers. Include details about the expected behavior, input data, and the desired output.

Mahbere Kidusan ICT Center, *Fullstack Developer*

01/2021 – 06/2021

Addis Ababa, Ethiopia

- Export assets from Figma: Export the necessary assets from Figma, such as images, icons, and styles.
- Set up a React project: Create a new React project using Create React App.
- Convert Figma design to React components: Use the exported assets and the design from Figma as a reference to create React components. Break down the design into smaller components and build reusable components wherever possible.
- Integrate the user interface with the backend: Connect the React user interface with the backend APIs using GraphQL mutations and queries.
- Perform performance optimization:

Optimize the performance of your e-learning website developed using Moodle

Some approaches to consider include:

- Implementing caching mechanisms to reduce server load and improve response times.
- Compressing and optimizing static assets, such as images and CSS files.
- Implementing lazy loading for images and other resources to improve initial page load time.
- Minifying and bundling JavaScript and CSS files to reduce file sizes and improve loading speed.
- Test and refine: Test web application thoroughly to ensure that it functions as intended. Conduct user testing to gather feedback and make improvements based on user experience.

Minister of Science and Higher Education,
Tester and Backend Developer(Internship)

02/2019 – 09/2019
Addis Ababa, Ethiopia

- **Develop test cases:** Collaborate with business analysts, testers, and users to develop test cases that reflect actual user needs. These test cases should cover various scenarios and functionalities of the system.
- **Execute user acceptance testing:** Execute the test cases to verify if the existing systems conform to the requirements. This involves performing real-world scenarios and using actual data to ensure the system behaves as expected.
- **Document defects:** Document any defects or issues encountered during the user acceptance testing. Clearly describe the problem, steps to reproduce, and expected behavior. This documentation will help developers understand and address the issues efficiently.
- **Document passing units:** Alongside documenting defects, also document the units that pass the user acceptance testing. This provides a clear overview of the system's functional areas that meet the requirements.

For the development of APIs for a summer volunteer registration system, you can follow these steps:

- **Design the API endpoints:** Determine the required functionality and design the API endpoints accordingly. This includes defining the operations, request/response structures, and authentication mechanisms.
- **Implement the API endpoints:** Using Node.js with Express to implement the API endpoints. Follow best practices for API development, such as proper error handling, input validation, and security measures.
- **Test the APIs:** Write test cases to verify the functionality and correctness of the APIs. Using Postman to perform automated API testing. Test various scenarios, including valid and invalid inputs, edge cases, and error handling.
- **Document the API documentation:** Create clear and comprehensive documentation for the APIs, including the endpoint details, request/response structures, and any required authentication or authorization.

Education

Addis Ababa Institute of Technology/Addis Ababa University, *BSC in Software Engineering*

09/2015 – 12/2020
Addis Ababa, Ethiopia

Skills

- | | | | |
|----------------|-------------|--------------|--------------|
| • React | • Redux | • JavaScript | • ContextAPI |
| • Nodejs | • Expressjs | • Angular | • HTML |
| • CSS | • JQuery | • Bootstrap | • MaterialUI |
| • Tailwind CSS | • MySQL | • MongoDB | • Golang |
| • PHP | • Python | • GRPC | • Git |
| • CI/CD | • docker | • Aws | • Postman |

Projects

Real Gaming Poker Game, *Poker Gambling game*

04/2022 – present

- simulating the real-time poker in to automated different kinds of poker variants like texas holdem, omaha... and let customers play and get money off of it.
- automation testing on mobile application using appium, webdriverio.

DubePay, *Credit System Application*

02/2022 – 04/2022

- Credit application that makes credit process easy, all the customers have to is signup and let's their amount and get the loan by giving their job license or other collateral.

School of Cloud, *Online Master Class from Best Expertise.*

12/2021 – 02/2022

- let the customers learn from where they are about business, life, entrepreneurship.

GetFee.com, *payment systems that makes payments easy and to the get go.*

03/2021 – 12/2021

- Payment system that let customers paid for their services like hotel rooms, Gas station Payments, Super Markets and let merchants track their based with easy Dashboard
- I was Part of team Developing APIs and also integrating system end to end

FillCom,
This is Payment and Credit Application used in Gas Stations

09/2021 – 11/2021

eMazon, *Online Shopping Web applications to sell Traditional and rituals Clothes.*

02/2018 – 07/2018

YegnaMart(Graduation Fulfillment Project),
Agricultural based Ecommerce system

09/2019 – 12/2020

- This System Allows the farmers with mid range and high amount products directly sell products to Industries and Manufacturers.
- Also allow farmers with low amount products to sell their products using agents
- Allows Manufacturer to get directly from the farmers and able to track their product along the way.

and many will be shown based on request.

Certificates

AWS amazon certified cloud practitioner • Git Essentials, skillup.com

Languages

- Amharic
- English

Interests

Hiking

spending more times in woods listening to slow songs while walking uphill.

Reading Books

Reading History Books and Autobiographies.

Playing Footballs