# Yonas Alem

## Software Engineer

📍 Addis Ababa, Ethiopia    📞 +251936972697    ✉ yonalem21@gmail.com    in [linkedin.com/in/yonasalem21](linkedin.com/in/yonasalem21)

🌐 [https://yonas-alem.vercel.app](https://yonas-alem.vercel.app)

## PROFILE

Software Engineer with 3+ years of experience developing robust platforms for the Payment and gaming industries, Proven ability to deliver quality code Individually or in Collaboration with a team of any size, AWS Certified Cloud Practitioner, Skilled in DevOps practices, Committed to continuous learning and staying up-to-date with industry trends.

## PROFESSIONAL EXPERIENCE

**Senior Software Engineer,** Mereb Technologies                    Apr 2022 – Present

- Developed a reusable Poker Game Outcome Probability testing Script for the game, and also cross-checked with the official Documentation in Wikipedia.
- Collaborated with the team to optimize the cost and speed of the Poker game, which increased the speed by 30% and decreased the cost by 35%.
- Created a mobile automation script to test functionalities, enhancing the overall reliability and efficiency of the application.
- Implemented an automated cold storage Script that seamlessly integrated with the existing infrastructure, reducing the risk of data loss and improving overall system reliability.
- Improved user experience by adding intuitive UI components to the Dashboard and seamlessly integrating them with the backend API
- Developed and tested robust RPC APIs, ensuring the reliable and efficient functioning of communication within the system

**Full Stack Developer**, affiliate.com (Remote)                    Feb 2023 - Aug 2023

- Designed and implemented user interfaces using React and Tailwind.css.
- Migrated a legacy API from PHP to Node.js, leveraging TRPC for enhanced performance.
- I have developed scripts to store and generate reports, utilizing Google Cloud Storage for secure storage.
- Implemented a robust functionality to automate the delivery of download links for reports, streamlining the process and reducing the manual effort of downloading and sharing by 50%.
- Conducted thorough testing to ensure data integrity between the new and legacy reports.

**Frontend Developer,** Eaglelion Systems Technology                     Feb 2021– Apr 2022
- Converted Adobe XD designs to HTML and set up a React and Next.js project.
- Developed React components and integrated frontend with backend APIs and third-party payment APIs like Visa, MasterCard, Telebirr, and also Local Banks like Commercial Bank of Ethiopia.
- Tested and improved website performance from 45% to 97% overall score.
- Wrote test case documents and documented passing units.
- Able to Develop applications with a Team with 100k+ downloads and 3 Billion Birr (54 Million USD) in Transactions since launched in February 2023.
- Able to write, and test Mobile and Web Applications with 400+ registered hotels and 10K+ Google Play downloads.

**FullStack Developer**, Ethiopian Orthodox Church ICT Center          Jan 2021 – June 2021
- Exported assets from Figma and set up a React project.
- Converted Figma design to React components and integrated the user interface with the backend.
- Performed performance optimization for an e-learning website by cutting unnecessary resources(CSS and Javascript) and query optimization which leads to 25% efficiency when tested by GTMatrix.
- Undergo tests for web applications using Cypress and add fixes.

**Backend Developer**, EthERNet · Internship                          Feb 2019 - Jul 2019
- Wrote Acceptance Test Documents and Design flows on the implementation of Registration systems.
- Developed Restful APIs for Volunteer Summer Teachers and Students, as well as Donation Websites.

## SKILLS

**Programming Languages:** HTML, CSS, JavaScript, Python, Node.js, PHP, Bash Scripting
**Web Development Frameworks and Libraries:** React.js, Angular, Redux, ContextAPI, Material-UI, TailwindCss
**Mobile Application Developmen**t: React Native
**Databases:** MySQL, MongoDB
**Cloud Platforms:** AWS (Amazon Web Services), Google Cloud
**Containerization and Deployment:** Docker, CI/CD Pipelines
**API and Communication Protocols**: gRPC, RestAPI
**Software Development Life Cycle:** Familiarity with the Software Development Life Cycle (SDLC) processes and methodologies
**Tools:** Git, Linux, Postman, BloomRPC, Figma, AdobeXD

# EDUCATION

**Bachelor's in Software Engineering,** Addis Ababa University        Sept 2015 - Dec 2020
**Relevant Courses**: Data Structure and Algorithms, Python, Java, C#, C, IT Security, Software Engineering, Database and Database Administration, Web Design and Development, Project Management, Big Data Analysis

# PROJECTS

- Real gaming Poker(under Development) - Online Poker game with different types including Texas Holdem, Omaha, and five-card Draw - Senior Software Engineer
  Duration: 18 Months
  Technologies Used: React, PHP, gRPC, AWS, Python, bash Scripting
    - Wrote Testing Scripts
    - Researched and optimized Database queries
    - Developed Cold storage Script to backup Data to Aws S3
    - Designed and Implemented Admin Pages and integrate to the Backend API
- **Nedaj** - Fuel Purchasing Application, Frontend Developer
  Duration: 6 Months
  Technologies Used: React, React Native, Node.js, AWS, Redux, Axios
    - Designed and Implemented Mobile Application UI and Management Dashboard
    - Integrated each UI component with Backend API using Axios and managed data using Redux.
    - Merged changes from the team and Deployed the website to AWS
- **Getrooms** - Online Hotel Booking Application - Frontend Developer
  Duration: 6 Months
  Technologies Used: React, React Native, Node.js, AWS, Redux, Axios
    - Create Custom Dashboard React Components and Integrate With Backend API, Handle Data using Redux.
    - Integrate to Third-party Payment APIs like Local Bank APIs, and Also Visa and Master Card
    - Create test cases and scenarios and mentor interns to test and point out issues.
    - Deploy Nginx and CI/CD pipelines.
    - Give Training to Hotel Owners and Customers.

- **GetFee** - Payment API - Fullstack Developer
  Duration: 6 Months
  Technologies Used: React, Node.js, AWS, Redux, Axios
    - Develop a Dashboard for Different Customers Like Merchants, Agents, Banks, Districts, and Branches  using React and Integrate Commercial Bank of Ethiopia Api and Backend APIs
    - Write Customer Documentation and record videos to showcase how the

systems should be Used.
- Leads Junior Developers and interns and assign tasks to them as well as review and merge codes.

- **EthioDirect** - Online Remittance Platform, Frontend Developer
  Duration: 3 Months
  Technologies Used: React Native, Node.js, AWS, Redux-thunk, Axios, AdobeXD
  - Contribute to Design and Develop User Interface
  - Integrate User Interface to Backend, Payment APIS
  - Write Documentation for Security Agencies to check the whole system.