



Backend Engineer, Addis Ababa, Ethiopia

DAWIT ELIAS

[X](#) [Twitter/ X](#)

[in](#) [LinkedIn](#)

[✉](mailto:dawiteliaskassaye@gmail.com) dawiteliaskassaye@gmail.com

[🌐](http://www.dawit-elias.vercel.app) www.dawit-elias.vercel.app

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WHO AM I ?

👋 **HI!**

As a skilled Software Engineer with over 2 years of professional and freelancing experience, I have developed a fairly profound expertise in software development, system architecture, and project management. My career has been marked by a commitment to leveraging innovative technologies to create robust and scalable solutions that drive business success. With a strong foundation in both backend and frontend development (**mostly back end**), I possess a comprehensive understanding of the software development lifecycle. I am adept at leading cross-functional teams, mentoring junior developers, and collaborating with stakeholders to deliver high-quality products on time and within budget.

🎓 EDUCATION AND CERTIFICATIONS

BSc in Computer Science

Feb 2021 - 2025

University Of Gondar

Harvard CS50 course series

July 23, 2022

ALX Ethiopia batch of 2023

January 09, 2023

📅 Internships

Camara Education - backend intern

Feb 2023

Prodigy InfoTech - Fullstack web dev intern

💻 Work Experience



Optimetrics.ai - Fullstack developer

Freelancing on Upwork - golang backend engineer and web 3 developer

Addispay Financial Technologies (www.addispay.et) - Golang backed engineer

Hire Armada (www.hirearmada.com) - Go and Solidity developer for escrow service

The Ultimate Golang + Docker course for beginners - A boot camp that i am hosting and teaching to 50 students for free on telegram and YouTube.

-> <https://t.me/+hxXzjFyLzphiNmY0>

-> <https://www.youtube.com/@TriviumStudiosLtd/playlists>



FREELANCING & PERSONAL PROJECTS

Feb 2022 - present

- **NSM and UCMS integration for Flash Pay (freelancing)** : in this project i am working for an American Startup called **Next Layer technologies** where i am building NSM modules in go lang and node js that are used in managing user nodes in a crypto based payment gateway called **Flash Pay**. We have leveraged the use of i2p and other advanced communication protocols to build this rather complex system. We are also working on a token called **CRU(Crucial)** that will be used to subsidize the company's hardware requirements for the first 500 merchants to use our gateway.
 - **built a crypto betting app and Token called betu (freelancing)**: in this freelancing project which took around 4 months, i alongside 2 front end guys, made a game consisting of multiple small games and at the center a betting app. This app has a lot of features, the most common ones are chatting, multiplayer games, admin dashboard, betting for game outcomes, depositing tokens of other kinds and converting them to betu token, which is the token i built for the game. This token was even deployed on binance smart chain, but due to lack of marketing it failed. The app is discontinued due to disputes between us(developers) and the clients.
 - **TMS(Tomatomos) a tap-to-earn token on the solana chain (freelancing)**: in this project i worked with my clients from Upwork to develop a tap to earn token system that is on the Solana chain. This token was going to be used in the tap-to-earn telegram game called TMS and had a total supply of 100M with complex tokenomics. I implemented the whole token system with Rust and deployed it to the solana dev net. This project is currently with me due to a dispute in payments.
 - **Backend payment and order service (take home project)** - Developed 5 services, **Notification, payment, order, wallet**, and **logger** service along side a **gRPC** server and **API** gateway and a **Next JS** front end checkout page for a project to land a full-time go lang backend engineer position at **Addispay Financial Technologies SC**.
 - **Implemented a Distributed and secure File Server (personal project)**: I designed and developed a highly scalable, secure, and fault-tolerant file storage system, improving data accessibility, security, and reliability across multiple nodes for a competition at **INSA** using Golang from scratch without using external libraries for the sake of avoiding security risks related to using them but the project got declined.
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MY WORK EXPERIENCE

PROFESSIONAL FULLTIME EXPERIENCE

DEC 2024 - present

- **Addispay Financial Technologies:** i am a senior backend engineer leading the backend team towards bringing the primary products of Addispay, the Gateway and MPOS services, to life. In this company we are working with multiple industry standard technologies including **Docker, Kubernetes, Golang, Apache Pulsar, gRPC** and much more. In my role, which spans multiple domains, I have participated in the **DDD(Domain Driven Design)** for the gateway with micro-services and the implementation as well. Alongside another senior dev, we implemented a code standard for the company. I have implemented the direct third-party integration for **telebirr, mpessa, katcha, cbe, awash** and other payment providers. I have also implemented the checkout APIs for b2c and c2b payment processing. I have implemented multiple services using Golang learning a lot of things along the way. I have worked in an Agile environment with eager to provide as much value as possible to the society, the company i work at and ultimately myself.
- **Hire Armada:** i am working with talented engineers to safeguard Ethiopian freelancers from getting scammed with an escrow service that is expected to be launched in August 2025. We will make use of decentralized web3 based solution for securing payments, holding funds and processing transactions.

TECHNOLOGIES I USE

- **Frameworks (Frontend) / Design:** TypeScript, React, Next.js, Redux, Ant Design, Angular, Svelte Kit, Material UI, SCSS/SASS
 - **Frameworks (Backend):** Gin, Echo, Gorilla mux, Next JS, Node.js, Express.js, PostgreSQL, MongoDB, Nest.js, RESTful API, GraphQL API, gRPC, WebSocket
 - **DevOps/Tools:** Git, AWS (EC2, S3, Lambda, CloudFormation, CloudFront), Playwright, Zapier, Docker, Kubernetes, Puppeteer
 - **Testing:** Golang testing package, testify, Mocha, Chai, Jest, Cypress, Selenium, Protractor, JUnit
 - **Programming Languages:** Golang, Rust, Solidity, Javascript, TypeScript.
 - **Software Development:** Domain-Driven Design (DDD), Test-Driven Development (TDD), Microservices, Service-Oriented Architecture (SOA), Event-Driven Architecture (EDA), Unified Modeling Language (UML), Agile (Scrum, Kanban).
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- **Tools:** Zed, Vs Code, Postman, GitLab, Bitbucket, Jira, Confluence, Slack, Trello, MS Office 365
 - **Knowledge:** Real-time systems, WebRTC, Parallel computing, Networking, Functional programming, Object-oriented programming, Design Patterns, Apache Pulsar, NoSQL, Elastic Search, Kibana, Logstash, Beats, Grafana, Prometheus, Kafka, RabbitMQ, Redis, Memcached, Kubernetes Operators, Istio, Helm, Serverless Framework.
 - **Databases:** MongoDB, PostgreSQL, MySQL, Redis, DynamoDB, MS SQL Server, Oracle Database, Cassandra
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TEACHING AS A HOBBY

- One thing that i am proud of is teaching my fellow ethiopians what i have gathered in this short work experience of mine. I am teaching 50 students golang and docker, how to get clients on upwork and other freelancing sites, for free. I have managed to make 2 students from the boot camp land three clients combined on upwork.

P.S. The codebases for the projects listed above and other projects is on my github page

 [My Github](#)