

Yemane Alem Redahay  
Full-Stack Engineer

• Trollhättan | Sweden +46769643648 [yemanea223@gmail.com](mailto:yemanea223@gmail.com) [GitHub](#) [LinkedIn](#)

## SUMMARY

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Dynamic full-stack engineer with **4** years of experience specializing in back-end technologies. Skilled in designing and implementing scalable, maintainable architectures, with a solid foundation in full-stack development. Experienced in building high-performance applications across HealthTech, FinTech, Insurance, and Law firm domains. Driven by curiosity and innovation, passionate about delivering secure and efficient software solutions that solve complex business problems.

## EXPERIENCE

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### Senior Software Engineer | Python Developer

Jun 2025 – Jul 2025

*Kacha Digital Financial P.L.C | Addis Ababa, Ethiopia*

- Designed and implemented core modules of a **Loan Management System** using **Django** and **DRF**, integrating with the company's **Credit Scoring Engine** and **Digital Wallet**, and deployed it in the company's data center using **Docker** and **CI/CD pipelines**. Successfully enabled scalable loan processing for over **100,000 users**, ensuring high performance.
- Refactored and optimized the existing **Django** based **Premium Financial system (Car Insurance)** by implementing **Redis-based caching**, **query optimizations** and carefully **optimizing background tasks**, improving response time by **35%** and ensuring high reliability under heavy transaction loads.
- Actively participated in **agile development workflows**, including **sprint planning**, **daily stand-ups**, **code reviews**, and **retrospectives**, ensuring effective communication and continuous delivery improvement.

### Full-Stack Developer

Dec 2023 – Jun 2025

*Medco Technologies | Addis Ababa, Ethiopia*

- Developed the **backend APIs** of a comprehensive web-based **Overseas Insurance System** using **Spring Boot**, collaborating with cross-functional teams. Handled policy management, premium calculation, and claims processing, enabling the insurance company to achieve an **annual revenue of 10 million ETB**.
- Designed and implemented the **backend microservices architecture** for **Ride Healing Insurance** using **Spring Boot**, **Spring Cloud**, and **Apache Kafka**. Developed RESTful APIs and integrated digital payments with **Chapa**, ensuring scalable and reliable service delivery.
- Designed and developed a **full-stack CBHI management system** using **Spring Boot (backend)** and **Vue.js (frontend)**, covering member registration, renewals, and claims processing. Enhanced reporting and analytics, enabling administrators to monitor coverage, payments, and utilization effectively, resulting in an **80% improvement in government efficiency and operational effective**.
- Developed and designed an **electronic prescription system** using **PHP**, enabling physicians to prescribe medicines to nearby pharmacies. Implemented interoperability using **OpenHIM** and **OpenFN** to integrate with health systems enhancing data exchange efficiency by **40%** across healthcare components
- Led a team of **Odoo developers** to design, develop, test, and deploy **ERP applications** for a **pharmaceutical company**, enhancing overall operational efficiency by 90%. Integrated Odoo with external systems using RESTful APIs and implemented Chapa payment gateway for seamless financial transactions.

### Software Developer

Feb 2020 - Dec 2021

*Pilasa Technologies PLC. | Mekelle, Ethiopia*

- Developed a full-stack **Court Management System** using **Laravel** and **Vue.js** in collaboration with a cross-functional team, automating judicial processes for plaintiffs, defendants, lawyers, judges, and administrators.

Implemented case filing, tracking, scheduling, and evidence management, enhancing workflow efficiency and reducing manual errors, improving overall court operations by 80%.

- Requirements gathering and continuous communication with court stakeholders to ensure system alignment, incorporating feedback into iterative development cycles for a user-centered, scalable solution

#### **Intern Full-Stack Developer**

**Nov 2019 - Aug 2020**

**RenoStar IT Solutions | Mekelle, Ethiopia**

- Developed and implemented large-size projects using Vue.js, Laravel, TypeScript and MySQL.
- Wrote production-ready code with fluency in modern front-end and back-end frameworks.
- Collaborated with the development team to integrate and implement WebSocket technology for real-time

## **PERSONAL PROJECTS**

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- **Printing production system** – A mobile-enabled platform that allows users to order customized prints (such as T-shirt designs) and track the progress of their orders in real time. Tech Stack: **Node.js, Express.js, React.js, MongoDB, Flutter**
- **News Page:** A dedicated section that displays the latest updates, announcements, and important information. Tech Stack: **Laravel and MySQL**
- **Betting system** – A web-based application that enables users to place bets, view live odds, and track match results with secure authentication and wallet management. Tech Stack: **Node.js, Vue.js, Express.js, MongoDB**

## **EDUCATION**

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**Mekelle Institute of Technology (MIT) – Mekelle University | Mekelle, Ethiopia**

**Sep 2015 – Dec 2020**

*BSc in Information Technology (Engineering)*

- **Key Modules:** Data structure, Operating System, Artificial intelligence, Machine learning, Design and Analysis Algorithm, Mobile Application Development, Web application development.

**Bizet Preparatory School - | Bizet, Ethiopia**

**Oct 2013 – Jun 2014**

*Natural Science*

## **TECHNICAL SKILLS**

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- Programming languages: Python, Java, JavaScript(including Typescript), C++,C, Assembly language
- Web Application Frameworks: Spring Boot, Node.js, Laravel, React.js,Vue.js, Django, FastAPI,Odoo, TensorFlow, Keras, Scikit-learn
- Cloud & DevOps: AWS, GCP, Docker, Kubernetes, GitHub Actions, CI/CD pipelines, Jenkins
- Databases & Data Tools: PostgreSQL, MySQL, MongoDB, Redis, SQLAlchemy, Sequelize
- Other Tools & Technologies: RESTful APIs, GraphQL, OpenAI / AI integrations, Microservices architecture, Apache Kafka

## **CERTIFICATIONS**

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- Levelling up as Node.js developer - Advanced Node.js , Udemy – Jan 2024
- Google Project Management, Coursera – Oct 2023
- Advanced Software Engineering, Walmart Global Tech –Jul 2023
- Problem Solving, Hackers Rank – Apr 2022