

MINIYAHIL KEBEDE LOHA

Senior Software Engineer

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 Date of Birth: 1 February 1997
 Nationality: Ethiopian

PROFESSIONAL SUMMARY

Results-driven Senior Software Engineer with **7+ years** of experience in designing, developing, and implementing scalable enterprise and nationwide digital solutions across the health, education, agriculture, and logistics sectors. Proven expertise in full-stack software development, system architecture, backend engineering, and technical leadership.

Skilled in building reliable, user-centered, and high-performance applications using modern technologies, including Java, Spring Boot, React, Angular, Laravel, Next.js, and cloud-based infrastructures. Experienced in leading large-scale implementations, mentoring developers, and delivering innovative solutions that improve operational efficiency and organizational performance.

Strong communicator and strategic problem-solver with a passion for developing impactful digital systems that support data-driven decision-making and national-scale service delivery.

TECHNICAL SKILLS

- **Programming Languages:** Java, TypeScript, JavaScript, PHP, Python
- **Frontend Technologies:** React, Angular, Next.js, Vue.js, HTML/CSS
- **Mobile App Devt Technologies:** Android Studio(Java), Flutter, React Native
- **Backend Technologies:** Spring Boot, Laravel, Node.js, Django
- **Databases:** PostgreSQL, NoSQL Databases
- **DevOps & Tools:** Docker, CI/CD, GitHub, AWS
- **Reporting & Analytics:** JasperReports, Apache Superset
- **Other Expertise:** System Integration, Software Architecture, Full-Stack Development, Technical Training, Enterprise Systems

PROFESSIONAL EXPERIENCE

Technical Consultant

Unicef

September 2025 –

- Analyze client business and technical requirements.
- Design scalable software solutions and system architectures.
- Recommend appropriate technologies, frameworks, and development tools.
- Conduct technical feasibility assessments.
- Develop technical specifications, solution designs, and documentation.
- Advise development teams on implementation approaches and best practices.
- Review existing systems and identify performance, security, and scalability improvements.
- Integrate software applications, APIs, databases, and third-party services.

Senior Software Engineer

John Snow, Inc.

September 2022 – July 7 2026

- Contributed to the development and enhancement of enterprise-level budget management platforms aimed at replacing Excel-based budgeting systems across organizational projects.
- Developed new functionalities and maintained existing enterprise applications to improve efficiency, scalability, and reporting capabilities.
- Participated in the design and implementation of digital health and supply chain systems across multiple countries.
- Collaborated with cross-functional teams to deliver high-quality software solutions aligned with organizational objectives.

Senior Software Engineer

Ethiopian Artificial Intelligence Institute

January 2024 – 2026

- Worked on large-scale national digital transformation initiatives involving more than six nationwide systems and four internal institutional platforms.
- Contributed to backend system design, integration, and development of enterprise-grade applications.
- Supported scalable architecture and system optimization for national-level platforms.

Software Engineer (Contractual)

Ministry of Education

January 2018 – August 2024

- Developed and maintained the national Student Admission and Placement System, handling over one million student records annually.
- Improved system performance, scalability, and reliability for nationwide education management processes.
- Collaborated with government stakeholders to ensure successful implementation and operational support.

Software Engineer

Jimma University

January 2019 – August 2022

- Participated in the development of multiple large-scale national and institutional systems.
- Supported backend and full-stack development activities for enterprise-level applications.
- Worked closely with multidisciplinary teams to deliver scalable and maintainable software solutions.

SELECTED AND RELEVANT PROJECTS

1. eLMIS / OpenLMIS Implementations – Madagascar, Côte d’Ivoire, Guinea, Tanzania, Zanzibar & St. Vincent and the Grenadines

John Snow, Inc.

Role: Technical Lead & Full-Stack Developer

Led customization and extension of the OpenLMIS open-source platform to strengthen medical supply chain and logistics management systems across multiple countries in collaboration with governments and global health partners.

Technologies: Spring Boot, AngularJS, JasperReports, Apache Superset, Docker, PostgreSQL

2. Project Budget Tool (PBT)

John Snow, Inc. USA

Role: Full-Stack Developer

Developed a project budgeting platform for planning, budget management, annual reporting, and budget analytics to improve organizational financial management processes.

Technologies: Spring Boot, React, AWS, PostgreSQL

3. Software Development Training – Ministry of Health, Eswatini

Ministry of Health, Eswatini

Role: Software Trainer

Delivered hands-on training on production-ready software development practices and supported local developers in building scalable in-house systems.

Technologies: React, Spring Boot, PostgreSQL, Docker

4. National Soil Information System (NSIS)

Ministry of Agriculture, Ethiopia

Role: Backend Developer

Contributed to the development of a national soil and weather data management platform supporting research and agricultural decision-making.

Technologies: Django, GeoNode, PostgreSQL

5. Ethiopian Electronic Cargo Tracking System (EECTS)

Ethiopian Artificial Intelligence Institute

Role: Backend Developer

Designed and developed backend services for a national cargo tracking system to monitor goods movement within and outside Ethiopia.

Technologies: Spring Boot, Vue.js, Redis

6. Software Training – Ministry of Health, Zambia

Ministry of Health

Role: Software Trainer

Conducted technical training on OpenLMIS customization, extension, CI/CD pipelines, and deployment practices for Ministry of Health developers.

Technologies: GitHub, CI/CD, Spring Boot, Angular, Docker

7. Student Admission and Placement System (SAPS)

Ministry of Education, Ethiopia

Role: Full-Stack Developer

Implemented a national student admission and placement platform processing over one million student records annually.

Technologies: Laravel, Python, Next.js, PostgreSQL, Docker

8. Ethiopian Agricultural Data Hub (Ag-DataHub)

Ministry of Agriculture, Ethiopia

Role: Full-Stack Developer

Developed a national agricultural data hub serving as a central source of soil and livestock information for researchers and policymakers.

Technologies: Next.js, Laravel, PostgreSQL, AWS

CORE COMPETENCIES

- Full-Stack Software Development
- Enterprise System Architecture
- Digital Health Systems
- Supply Chain Information Systems
- Cloud-Based Application Development
- Backend API Development
- System Integration & Interoperability
- Technical Leadership & Mentorship
- DevOps & CI/CD Pipelines
- Agile Software Development