

NAHOM WOSENU Senior Backend Software Engineer

Addis Ababa, Ethiopia +251 938 971 714 | me@nahom.pro <https://nahom.pro> | [LinkedIn](#) | [Upwork Portfolio](#)

PROFESSIONAL SUMMARY

Senior Backend Software Engineer with 8+ years of experience designing and maintaining scalable distributed systems, secure enterprise platforms, and high-performance APIs. Strong expertise in Java/Spring ecosystems, microservices architecture, cloud deployments, and low-latency real-time systems. Proven track record delivering mission-critical software across federal programs, enterprise security platforms, and production WebRTC infrastructure.

Frontend capable when required, but primarily focused on backend architecture, performance optimization, and system reliability.

CORE TECHNICAL SKILLS

Backend & Languages Java, Spring Boot, Python, C#, C++, PHP, SQL

Architecture & APIs Microservices, REST APIs, distributed systems, event-driven systems, authentication/security systems

Cloud & DevOps AWS (Lambda, EC2, S3), Docker, Kubernetes, Jenkins, GitLab CI/CD

Databases PostgreSQL, MySQL, MongoDB, MSSQL

Additional Engineering Domains WebRTC systems, cryptography, Android native/JNI, TensorFlow integrations, Unity/VR

Frontend (supporting experience) Next.js, React, Angular, TypeScript

PROFESSIONAL EXPERIENCE

Senior Software Engineer Confidential Aerospace & Defense Technology Firm Sept 2025 – Present

- Designing backend services and telemetry processing systems for real-time satellite control platforms
- Building Spring Boot microservices handling mission telemetry ingestion, analysis, and visualization pipelines
- Implemented low-latency data processing workflows supporting vehicle health monitoring and orbital analytics

Senior Software Engineer Federal IT Services Contractor (DHS Programs) Aug 2024 – Sept 2025

- Led backend modernization of federal systems into AWS-based microservices architecture using Spring Boot and Lambda
- Designed secure workflow APIs supporting enforcement case management and digital processing pipelines
- Migrated legacy monolith services into distributed backend infrastructure improving deployment flexibility and maintainability

Contract Full-Stack Developer Cognosante — Remote Apr 2024 – Jun 2024

- Migrated legacy Java EE backend to Quarkus improving API performance by 60%
- Designed backend service layers supporting ADA-compliant Next.js frontend

Contract DevOps Engineer OneMain Financial — Remote Mar 2024 – Jun 2024

- Built CI/CD pipelines supporting deployment lifecycle of 15+ backend microservices
- Improved static code quality metrics by 35% through automated pipeline enforcement

Senior Software Engineer LokDon LLC — Remote Sep 2018 – Aug 2023

- Architected encrypted WebRTC conferencing backend supporting 10,000+ daily meetings
- Designed secure authentication, encryption handling, and real-time communication infrastructure
- Developed enterprise desktop encryption software deployed to 50+ organizations
- Led Android biometric authentication backend integrations using JNI/NDK pipelines
- Reduced production APK size by 40% through native performance optimization

Freelance Software Engineer Upwork Dec 2016 – Present

- Developed backend admin systems in Java/Spring serving 500+ daily users
 - Built TensorFlow-integrated automation modules improving operational throughput by 70%
 - Optimized Python-based simulation backend APIs improving rendering pipeline performance by 50%
-

SELECTED PROJECTS

Commercial Unity VR Application Designed and monetized production VR software deployed to paying customers <https://nohtv.shop/about.html>

Android Native Audio Sync Library Open-source JNI-based audio synchronization module with 200+ GitHub stars

Enterprise Encryption SDK Implemented 2048-bit encryption protocols across C++ and PHP enterprise systems

EDUCATION & CERTIFICATIONS

BSc Information Technology — Arba Minch University GPA: 3.25 / 4.0

Google Cloud Fundamentals — 2023 AWS Certified Developer — In Progress