Betselot Aderaw Miheret
Software Developer

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 Linkedin
 Github
 Portfolio (My Profile)

Technical Skills

Languages: **Java**, JavaScript, Python

Web: React, Next.js, HTML, CSS

Frameworks: **Spring** (MVC, Boot, Security, AOP, Data, HATEOAS, Envers, Hibernate, JPA)

Databases: MySQL, MSSQL, PostgreSQL, Neo4j

Web Services: RESTful, Messaging (RabbitMQ)

Tools: IntelliJ IDEA, VS Code, Postman, Maven, Git, Docker

Platforms: AWS, Firebase, Tomcat

Professional Experience

Fraunhofer   **Bremen**
Master Thesis Researcher   *Mar 2025–Aug 2025*
- Developed AI-driven, agent-based pipeline for biomedical knowledge graphs using BioBERT/GPT-4o/LLaMA
- Integrated NCIt ontology for semantic validation, reducing LLM hallucinations
- Achieved high relation extraction accuracy (entropy = 3.66 across 10 papers)

Dulcian   **Addis Ababa**
Mid-Level Software Developer   *May 2022–Jan 2024*
- Built RESTful applications with Java/Spring Boot/Hibernate, implemented JWT authentication
- Developed system audit using AOP, Excel import interface, and Spring Security integration
- Lead developer for Auto Dealer project; contributed to iTAP system used by 825+ organizations

Code Impact B.V.   **Remote**
Software Developer   *Oct 2021–May 2022*
- Developed web applications with clean architecture and test-driven development
- Implemented RESTful APIs, managed data with MySQL/MongoDB, created Cron services
- Wrote unit tests (JUnit) and end-to-end tests (Selenium)

Dulcian   **Addis Ababa**
Software Developer   *Aug 2018–Oct 2021*
- Developed HR and payroll modules in Java with fingerprint-based attendance integration
- Built 5 modules from scratch in a Scrum team of 7 developers
- Implemented SOLID/DRY principles and conducted weekly sprint meetings

Projects

Biomedical Knowledge Graph: **Python, BioBERT, GPT-4o, Neo4j** – AI-driven pipeline for constructing biomedical knowledge graphs from scientific literature with NCIt ontology integration

Auto Dealer: **Java, Spring Boot, React, MySQL** – Platform for auto dealer stock/sales management

iTAP System: **Java, Spring MVC, MS SQL** – Biometric attendance/payroll system for 1000+ organizations

OGR (Oil & Gas Refinery): **Java, JHipster, Spring Boot, React, MySQL** – Regulatory compliance system for oil/gas industry

Power: **Next.js, Pocketbase, Firebase, CoinPayment** – Social media platform with crypto payment integration

Education

Constructor University	**Bremen**
M.Sc. Computer Science	*2023–2025*
University of Gondar	**Ethiopia**
B.Sc. Electrical & Computer Engineering	*2014–2018*

Certifications

React.js: Essential Training
Full-Stack: Building Apps with React & Spring
Cloud Computing: Introduction to Cloud Computing for IT Pros

Awards

2018: Certificate of Appreciation
Face recognition system development - University of Gondar **2018**: Certificate of Recognition
2nd place in African continental Robot-soccer cup