

# ASHENAFI GEBREYESUS

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## SENIOR SOFTWARE ENGINEER

Skilled senior-level software engineer with 5+ years of experience delivering outstanding results in fast-paced, deadline-driven software development and engineering environments. Strong technical aptitude, with expertise in Java, Python, React, and Spring Boot. Full stack development experience with hands-on expertise spanning database design and development, cloud computing, and Machine Learning.

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Software Development Lifecycle • Full Stack Development • Web Services • Big Data • Microservices  
Design Patterns • SOA • Java Programming • Object-Oriented Programming  
Concurrency & Multithreading • Data Structures & Collections • Data Intensive Applications • UI Design  
Dependency Injection • JVM / Memory Management • Socket Programming • Database Development

**Languages:** Java, Python, Go

**Web:** HTML5, CSS3, Java Script, jQuery, Ajax, Bootstrap, JSP

**Web Services:** Microservices, RESTful, SOAP

**WebApp Servers:** NGINX, Apache/Tomcat

**Frameworks:** Spring (MVC, Boot, Security, Data, AOP, Dependency Injection, Cloud), Hibernate, Node.js, Express, React

**Databases:** MySQL, SQLite, DynamoDB, Neo4j, Postgres, Maria, MongoDB, Cassandra

**Design Patterns:** Singleton, Prototype, Session, Session Factory, Observer, Template Method, Factory Method, Decorator, Proxy, Façade

**SDLC:** Agile/Scrum, Waterfall, TDD, DDD, SOA, Component Based

**Tools:** Docker, VS Code, IntelliJ, Git, GitLab, Gitlab

**CI/CD:** Git Action, Jenkins, Docker, Kubernetes, Kafka

**Platforms:** Linux, Windows, Mac

**Big Data:** TensorFlow, Pytorch, Keras, NumPy, Pandas, Scikit-Learn, Neural Networks, Transformers

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## PROFESSIONAL EXPERIENCE

**CAREER NOTE:** Completed on-campus studies and currently taking distance education courses to complete a **master's degree in Computer Science** (Available for full-time, W-2 employment).

### ELSE CORP, Milano, Italy • 2020-2022

Software development company specializing in e-commerce and cloud manufacturing software.

**DevOps Engineer / AWS Cloud Engineer • 2021-2022:** Played key role on elite technical team in back-end development, implementation, and deployment of enterprise software.

- Developed clean, efficient, scalable code in Python, JAVA and C++.
- Developed microservices using Java Spring Boot and Python.
- Integrated software components and 3<sup>rd</sup>-party programs.
- Assisted in developing organizational flow software assisting teams in managing multiple projects.
- Recommended key software enhancements that resulted in 65% performance improvement
- Performed troubleshooting and upgrades of legacy software.

**Technologies Used:** Java, Python, PyCharm, GIT, Linux, C++, Amazon SageMaker, Amazon Lambda, Amazon ECS

**Senior Software Engineer / DevOps Engineer • 2020-2021:** Assisted in development of enterprise software.

- Designed and implemented user interfaces.
- Developed Machine Learning and Deep Learning models using Amazon SageMaker; built back-end microservices using Django; conducted unit and integration testing.
- Implemented CI / CD pipeline to streamline deployment.
- Infrastructure provisioning and application deployment on cloud services.

**Technologies Used:** Python, Django, NGINX, Docker, Docker-Compose, PyCharm, GIT, Linux, AWS S#, Dynamo DB, AWS Fargate, Cloud Formation, AWS Lambda

**UNICREDIT SERVICES S.C.P.A., Milan, Italy • 2019-2020**

Internet banking services company offering ATM monitoring, electronic payment, document sharing, and corporate banking services.

**Data Scientist:** Served key role on elite technical team in managing and analyzing large data sets.

- Performed requirements analysis, algorithm development, unit, and integration testing.

**Technologies Used:** Python, Tesseract OCR, Open CV, TensorFlow, Docker, Kubernetes

**MEKELLE UNIVERSITY, Mekelle, Ethiopia • 2015-2017**

One of Ethiopia's largest public universities.

**Software Developer:** Developed and maintained key software for academic institutions.

- Developed software requirements, documentation, and validation processes.
- Conducted algorithm development, component integration, unit, and integration testing.

**Technologies Used:** Java, Spring, Hibernate, Tomcat, MySQL, HTML, CSS, JavaScript, jQuery, Ajax, Bootstrap

## ACADEMIC PROJECTS

**Online Shopping Cart MIU, 2022:** Developed scalable online shopping system enabling purchases, product catalog browsing, order history management, and online checkout with persistent cart. Implemented web services to retrieve data from banking systems. Utilized Jess for rules engine for business logic and validations. Used Agile Scrum methodology.

- **Technologies Used:** Jess, Spring, Hibernate, Spring Security, MySQL

**Online Auction System MIU, 2022:** Developed event-based platform enabling real-time online auctions.

- **Technologies Used:** Java, Spring Boot, ReactJS, Kafka, ZipKin, Spring Config, Hystrix MongoDB, PostgreSQL, Docker, GIt, GitHub-Actions

**Online Tech Support System MIU, 2022:** Developed tech support system for retail store, enabling tech support workers to repair electronic equipment for subscribers.

- **Technologies Used:** Java, Spring Boot, ReactJS, MongoDB, Docker, GIt, GitHub-Actions

**Sheba-Hub Educational Platform, MIU, 2022:** Developed question-and-answer platform allowing high school students to post questions and get answers from online community.

- **Technologies Used:** Java, Spring Boot, ReactJS, PostgreSQL, Docker, GIt, GitHub-Actions

**Webstore, MIU, 2022:** Developed e-commerce store with buy and sell functionalities.

- **Technologies Used:** ReactJS, Spring Boot, Spring Data JPA, Spring JMS, RESTful Web Services MVC, Maven, MySQL, H2, Git, Docker

**Briscola, Polytechnic University of Milan, 2019:** Developed application for playing popular Italian card game.

- **Technologies Used:** Java, Android, Gitlab, Firebase

**AI-Based Optical Character Recognition App, Polytechnic University of Milan, 2021:** Developed optical character recognition app with ability to extract text from images.

- **Technologies Used:** Python, Tesseract, Docker, Git

## EDUCATION

### Master of Science in Computer Science

(In progress via distance education; expected completion DEC-2024)

Maharishi International University, Fairfield, Iowa

**Key Courses:** Fundamentals of Programming Practices in Java, Modern Programming Practices in Java, Web Application Programming, Web Application Architecture, Enterprise Architecture, Algorithms

**Master of Science in Computer Science**  
Polytechnic of Milan, Milan, Italy

**Key Courses:** *Machine Learning, Deep Learning, Advanced Databases, Software Engineering 2, IoT, Mobile Applications*

**Bachelor of Science in Computer Science and Engineering (2015)**  
Mekelle University, Mekelle Institute of Technology, Mekelle, Ethiopia

**Key Courses:** *Data Structures, Algorithms, Operating Systems, Computer Networking, Compiler Design*

**PROFESSIONAL DEVELOPMENT**

Learning TensorFlow with JavaScript, LinkedIn Learning  
AWS Fundamentals: Building Serverless Applications, Coursera  
Docker Essentials: A Developer Introduction, Cognitiveclass.ai