

ASHENAFI GEBREYESUS

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SENIOR SOFTWARE ENGINEER

Meticulous Senior Software Engineer with 6+ years of experience designing, developing, testing, and deploying software applications with a strong track record of delivering successful projects. Experience with all phases of the software development life cycle(SDLC) while ensuring prompt completion of secure and clean code despite challenging deadlines. Passionate engineer with a focused mindset, keen to quickly learn new skills and solve complex problems. I am skilled in Java, Python, JavaScript, Spring Boot, Kafka, and RESTful web services. A Full-Stack developer with hands-on experience spanning Microservices Development, Database Design, DevOps practices, Cloud Computing, and Machine Learning.

Java Programming • Software Development Lifecycle • Full Stack Development • Web Services
Data Structures & Collections • Object-Oriented Programming • Concurrency & Multi-threading
Microservices • Design Patterns • SOA • Machine Learning • Data Intensive Applications
JVM / Memory Management • Big Data • Database Development

Languages: Java, Python, Java Script

Web Technology: HTML5, CSS3, jQuery, Ajax, JSP, Servlet, JSON, XML

Web Services: RESTful, SOAP, Microservices

Web Servers: NGINX, Apache/Tomcat

Back-End Frameworks: Spring, Spring Boot, Hibernate, NodeJs, Django, Flask, ExpressJs

Front-End Frameworks: ReactJs, Angular, VueJs

Testing Frameworks: JUnit, Mockito, REST-assured, Jasmine, Mocha

DBMS: MySQL, PostgreSQL, MongoDB, Cassandra, Redis, DynamoDB, Neo4j

IDEs: IntelliJ, Eclipse, VS Code, NetBeans, PyCharm

Tools: Postman, Git, Github, GitLab, Jira, Slack, Maven, gradle, Kafka, RabbitMQ, ActiveMQ

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

Project Management: Agile (Scrum, Kanban, XP), TDD, Waterfall

Project Management Tools: Jira, Redmine

Platforms: Linux, Windows, Mac

Machine Learning: TensorFlow, PyTorch, Keras, NumPy, Pandas, Scikit-learn, Neural Networks, Apache Spark

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 Srl [2019-2022]

Milan, Italy

Software development company specializing in retail and cloud AI solutions.

Senior Software Engineer / DevOps Engineer • 03/2021-04/2022: Played a key role on a technical team in the back-end development and deployment of enterprise Applications.

- Developed a cloud-based e-commerce platform, using Spring Boot, hibernate resulting in a 20% increase in online sales.
- Recommended key software enhancements such as Redis and Kafka that resulted in 65% performance improvement.
- Implemented microservices architecture using API-gateway, SQS, SNS and Kinesis and integrated third-party APIs.

- Infrastructure provisioning using Cloud Formation and application deployment on cloud services using EKS and ECS.
- Assisted in developing organizational flow software and assisting teams in managing multiple projects Using Jira and Git.
- Implemented secure, robust, and independent Identity and Access Management (IAM).

Technologies Used: Java, SpringBoot, Hibernate, Python, Django, GIT, Linux, Amazon Lambda, Amazon ECS, Amazon EKS, Amazon S3, SNS, API gateway, Cloud Formation.

Senior Software Engineer • 03/2019-03/2021: Assisted in the development of enterprise software.

- Designed and implemented back-end microservices using SpringBoot and Django.
- Improved application performance by optimizing SQL Queries and implementing caching strategies.
- Conducted unit and integration testing using Junit and Mockito.
- Implemented CI / CD pipeline to streamline deployment using Jenkins.
- Integrated software components and 3rd-party APIs and Testing using RestAssured.

Technologies Used: Java, Spring Boot, Spring MVC, Hibernate, ELK, Kafka, Elastic Search, Redis, ZipKin, Python, Django, Docker, Docker-Compose, GIT, AWS S3, Dynamo DB, AWS RDS, AWS Lambda, API gateway.

UNICREDIT SERVICES S.C.P.A., Milan, Italy • 10/2018-03/2019

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

Data Scientist Intern: Served a key role on the technical team in managing and analyzing large data sets.

- Performed requirements analysis, algorithm development, unit and integration testing.
- Build a Machine learning application for OCR using Flask, Tesseract OCR, Open CV.
- Dockerize a python web application and deploy it on cloud using Kubernetes.
- Performing exploratory data analysis at scale, building machine learning pipelines using PySpark.

Technologies Used: Python, Pandas, Numpy Flask, Django, Tesseract OCR, Open CV, TensorFlow, Docker, Kubernetes

MEKELLE UNIVERSITY, Mekelle, Ethiopia • 01/2015-10/2017

One of Ethiopia's largest public universities facilitating research and development on big projects.

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

- Developed software requirements, documentation, and validation processes of e-Learning Platform.
- Work with developers to design algorithms and flowcharts.
- Conducted unit, and integration testing.
- Troubleshoot, debug and upgrade existing software

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

ACADEMIC PROJECTS

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, Glt, 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, Glt, GitHub-Actions

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

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

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, Glt, GitHub-Actions

AI-Based Optical Character Recognition App, Polytechnic University of Milan, 2020: Developed optical character recognition app with ability to extract text from images.

- **Technologies Used:** Python, Tesseract, Docker, Git, Flask, Django, AWS, EC2, SQLite

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

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

EDUCATION

Master of Science in Computer Science

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

Maharishi International University, Fairfield, Iowa, US

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 (2020)

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

[Advanced Java Programming, LinkedIn Learning](#)

[Functional Programming with Java, LinkedIn Learning](#)

[Learning Amazon Web Services \(AWS\) for Developers](#)

[AWS Fundamentals: Building Serverless Applications, Coursera](#)

[Apache Kafka Essential Training, LinkedIn Learning](#)