

# BEAMLAK MEKONNEN

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## SOFTWARE ENGINEER

Skilled engineer with 4+ years of intensive experience using architectural design patterns, industry best standards, and modern SDLC methodologies to design, develop, and maintain a variety of high-quality software solutions using Java, C#, AWS, SQL, Spring, REST API, JavaScript, jQuery, MS SQL, MySQL, Git, and Docker. Solid history of investigating performance bottlenecks and technical issues, and providing resolutions which markedly increase user engagement and company revenue.

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Software Development Life Cycle • Systems Architecture • Design Patterns • SOA • BDD & TDD  
Object-Oriented Programming • Data Structures • Algorithms • Back-End Components • Microservices  
Cloud Technologies • Database Development • Problem Solving • Testing & Troubleshooting

**Languages:** Java, C#, Python

**Web:** HTML5, CSS3, JavaScript, jQuery, TypeScript, AJAX, Thymeleaf, Razor, JSP, Servlet

**Web Services:** REST, SOAP

**Web/App Servers:** Apache Tomcat, Kestrel, IIS

**Frameworks:** Spring, Spring Boot, Hibernate, ASP .NET Core, Entity Framework, Django, Mockito, JUnit, NUnit, Selenium

**Databases:** MS SQL, Oracle, MySQL, PostgreSQL, MongoDB, DynamoDB

**Design Patterns:** Singleton, Prototype, Observer, Session, Session Factory, Abstract Factory, Strategy, Façade, Proxy, Adapter, Command, Iterator, Decorator

**SDLC:** Agile/Scrum, TDD, BDD

**Tools:** Git, GitHub, GitLab, Maven, Postman, Kafka, Zipkin, ActiveMQ, StarUML, Slack, Docker, Kubernetes, JIRA, Confluence, IntelliJ, Visual Studio, VS Code

**Platforms:** Windows, Mac OS, Linux, AWS

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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).

### **KEN-TECHNO DATA SOLUTIONS, Addis Ababa, Ethiopia • 2021-2022**

Digital solution company delivering enterprise ERP systems, websites, and mobile development.

**Software Engineer:** Designed, developed, tested, and maintained software applications in collaboration with cross-functional teams.

- Ensured adherence to best practices and coding standards.
- Developed RESTful APIs to integrate additional features with existing web-based ERP system and improve performance.
- Rebuilt existing event management and ticketing mobile application with improved user design, functionality, and operating speed, resulting in 27% increase in daily active users.
- Collaborated with team of 5 in building event management and ticketing website integrated with multiple payment APIs, resulting in 32% increase in company revenue.
- Tested software for bugs and operating speed, documenting process to increase efficiency by 18%.

**Technologies Used:** Java, Spring Boot, Microservices, Angular, REST, MySQL, MongoDB, Docker, Docker-Compose, Confluence, TeamCity, AWS, XML, HTML, CSS, JavaScript, JSON, Eclipse, IntelliJ, Maven, VS Code

## **FIREBOW ICT SOLUTIONS, Addis Ababa, Ethiopia • 2019-2021**

Leading consulting company providing enterprise solutions.

**Full Stack Developer:** Designed, developed, and maintained software containing front-end and back-end components, databases, and servers, applying best practices in software architecture and system design.

- Successfully delivered complex software project on time and under budget, resulting in 20% increase in company revenue.
- Designed and implemented new feature which improved user experience, received positive customer feedback, and resulted in 30% increase in user engagement.
- Developed and implemented new software development process which resulted in 50% reduction in development time and improved quality of deliverables.
- Identified and resolved critical software defect, preventing major systems outage and saving the company thousands of dollars in potential losses.

**Technologies Used:** Java, Spring (MVC, Boot, Security), C#, ASP .NET, Python, Django, FastAPI, Git, GitHub, Hibernate, MySQL, MS SQL, Struts 2, JUnit, NUnit, Mockito

## **PERSONAL PROJECTS**

**FreelanceTech (2021):** Designed and developed an online freelancing system which bridges the gap between freelance job seekers and clients in a trusting, professional environment, focusing primarily on IT-related occupations.

**Technologies Used:** C#, ASP .NET, Razor, HTML5, CSS3, JavaScript, jQuery, Entity Framework, MVC, Visual Studio, MS SQL

## **ACADEMIC PROJECTS**

**Maharishi International University, Fairfield, Iowa (2023):**

- **Car Fleet & Rental Management:** Worked in a team to design and develop a management application for car rentals.  
**Technologies Used:** Java, Spring Boot, Kafka, REST, MongoDB, PostgreSQL, JUnit, Mockito, Rest Assured

## **EDUCATION**

### **Master of Science in Computer Science**

*(In progress via distance education; expected completion June 2024)*

Maharishi International University – Fairfield, Iowa

**Key Courses:** Software Engineering; Cloud Technologies; Data Structure & Algorithms; Software Architecture

### **Bachelor of Science in Computer Science (2021)**

HiLCoE School of Computer Science & Technology – Addis Ababa, Ethiopia