

KEVIN CHEMUTAI

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JAVA BACKEND DEVELOPER

Skilled Java backend engineer with over 3 year's experience in quality assurance, I have hands-on experience using Java, Python, Angular, Cypress, Flask, Typescript, PostgreSQL, MySQL, MongoDB, Git, GitHub, PyCharm, Postman, and Docker in a high-performance, secure environment.

I am looking for a role to expand my Java skills and gain industry experience that I can use make a positive impact in the world.

Software Development Life Cycle • Database Design • Frontend / Backend • Testing Automation
Data Structures and Collections • Dependency Injection • Java Programming

Languages: Java, Python

Web: HTML5, CSS3, TypeScript, Bootstrap, jQuery, JSP, Servlets, Ajax, JavaScript, JUnit, XML

Web Services: REST, JSON, SOAP

Web and Application Servers: Tomcat

Frameworks: Spring (MVC, Boot, Security, Data, AOP, Dependency Injection, Cloud), Hibernate, Angular, React, Flask, Cypress, Django, Node, Express, Kafka, ActiveMQ

Databases: MySQL, PostgreSQL, MongoDB

Design Patterns: MVC, Singleton, Prototype, Observer, Session, SessionFactory

SDLC: Scrum, Waterfall

Tools: Maven, Postman, Docker, StarUML, Jira, VS Code, IntelliJ, Eclipse, Git, GitHub

Platforms: Linux, MacOS, Windows

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).

ENGIE ENERGY ACCESS, Kampala, Uganda • 2022

Leading pay-as-you-go and mini-grid renewable energy solutions provider.

Software Quality Assurance Engineer

Maximized quality by working with stakeholders and developers to identify, design, and implement test cases. Contributed to development of quality standards and software development best practices in Agile / Scrum environment.

- Prepared automated and manual tests.
- Led quality assurance process and quality advocacy.
- Implemented release management and testing automation with Cypress.
- Expanded software usage from 1 market to 5 markets by identifying issues and prioritizing fixes.
- Established payment gateway for MTTN Ivory Coast using Django during hackathon.

Technologies Used: Angular, Flask, Cypress, Typescript, PostgreSQL, Git, GitHub, PyCharm, Postman, Docker, MacOS.

ACADEMIC PROJECTS

Maharishi International University, Fairfield IA (2023)

- **Real Time Data Integration and visualization system:** Designed and implemented a microservice system that connects to various data sources using API's and retrieves JSON data, each JSON data structure consists of multiple data elements that can change overtime. The system consists of 3 components.
 - **Real-time Data Input Service (RTDIS):** Connects to data platforms, receives JSON data, and publishes it on a Kafka Stream. Multiple RTDIS services can be used for multiple data connections.
 - **JSON Data Ripper Service (JDRS):** Takes the published JSON data, separates it into individual data and publishes each element on a unique kafka topic. Only data elements expected to change over time are published.
 - **Presentation Service (PS):** Subscribes to data topics, generates a CSV file with timestamps and corresponding values for each topic, and allows visualization of the data values.

By designing this system, we demonstrated my ability to handle real-time data, process JSON, and present data effectively for analysis, used spring boot for microservices, apache kafka for messaging, Netflix eureka for service discovery and Git/GitHub for collaboration.

- **Online Shopping Cart System:** Designed and implemented a shopping cart system to manage online purchases using microservices using spring boot, we implemented authorization and authentication service using spring security, implemented an API gateway with spring cloud, used eureka for service discovery, used kafka for event sourcing and used feign client for interservice communication. We used Git and GitHub for collaboration.
- **Movie ticket management system:** Designed and implemented a system that manages Crud operations on movies and checks out movie tickets. Utilized Html5, CSS3, JavaScript for the front end, used node and express for the backend, PostgreSQL for the database, Ajax for API calls, git and git hub for collaboration.
- **Library Management System:** Designed and implemented system to manage book borrowing process for library. Created functionalities for administrator and account registration. Utilized Java for the backend, Swing for the front end, Git and GitHub for collaboration.

PERSONAL PROJECT

- **Employee Management System (2022):** designed employee CRUD management system to register, update, and delete employee accounts. Implemented frontend using Angular and deployed frontend with Firebase and backend with Heroku. Utilized Angular, Bootstrap, Spring Boot, maven, JPA, PostgreSQL, Git, GitHub, Firebase, Heroku.

EDUCATION

Master of Science in Computer Science

(In progress via distance education; expected completion June 2025)

Maharishi International University, Fairfield, Iowa

Key Courses: *Fundamental Programming Practices, Modern Programming Practices, Web Programming, Algorithms, Enterprise Architecture, Software Architecture*

Bachelor of Science in Computer Science (2013)

Makerere University, Kampala, Uganda

Key Courses: *Programming Methodology, Logic Programming, Cisco Certified Network Associate, Data Structures and Algorithms, Software Engineering, Artificial Intelligence, Discrete Mathematics, Computer Networks and Data Communication, Operating Systems, Systems Programming, Automated Complexity and Computability, User Interface Design, Linear Programming, Enterprise Network Management, Compiler Design, Computer Security*