Kevin Chemutai

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SENIOR SOFTWARE ENGINEER

Experienced Software Engineer with more than 10 years of IT expertise, including developing and integrating platforms and APIs with focus on ensuring proper architecture and design of projects. Motivated leader who leads teams through all phases of software development life cycle. Skilled in implementing technologies such as Java, J2EE, Hibernate, Spring, Angular, React.js, RESTful, Mongo DB, MySQL, PostgreSQL, JSON, Jenkins, DevOps, AWS Cloud, Oauth2

Software Architecture / DevOps / Microservice • Agile / Scrum
Analysis / Design / Development / Implementation / Cloud Deployment • Unit / Integration Testing

Professional Summary

- Expertise in designing and developing multi-tier enterprise level web-based applications using Java, J2EE technologies and Frameworks like Servlet, JSP, JAXP, JAXB, JSF 2, EJB, JMS, Web Services (RESTful, SOAP), Multi-threading, Hibernate, Spring (spring Boot, IOC, MVC, REST, AOP, Security, ORM, Microservice) etc.
- Strong understanding of Microservice architectures, patterns, related frameworks, and prior hands-on experience in developing and deploying Microservice solutions.
- Extensive experience working in an Agile development environment and DevOps environment, GIT, Maven, Jenkins, SonarQube, Virtualization & Docker Container, Kubernetes, OpenShift, AWS environment.
- Experience with Data Modeling using ER diagrams and mapping them to SQL Tables.
- Working experience in Amazon Web Services (AWS), EC2, Elastic Container Service, Load Balance, S3, Storage Gateway, RDS (Relational Database Service), DynamoDB, Maria DB, VPC, CloudFront, API Gateway.
- Experience in Software Testing (Manual and Automation) with a solid understanding of Test Planning, Test Design, Test Execution and Defect Reporting & Tracking.
- Experience in Manual and Automation Testing using Junit, TestNG, Selenium IDE, WebDriver, Grid, Element Locators, Cucumber, JMeter, SOAPUI, REST Client Test, Postman.
- Experience in Software design patterns like SOLID, SDLC, Test Driven Development (TDD), Behavior Driven Development (BDD), Continuous Integration and Continuous Delivery
- Experience in UI/UX development like front-end, cross-platform, mobile web application based on HTML/HTML5, JavaScript, CSS/CSS3, AJAX, JSON, XML, jQuery, Bootstrap, AngularJS, Angular 2/4/6/8, React JS, Node.js etc. for creating universal web application.
- Experienced in developing Single Page Applications (SPA) using Angular, Typescript module, components, views, router, and Angular APIs like (Ng-Module, Forms-Module, Http-Module, Browser-Module, Text-Mask-Module, ext.)
- Worked on React JS framework to develop interactive websites using React JS components, Forms, Events, Keys, Router, plus Redux, Animations and Flux concept.
- Experienced in working with Node.JS and NPM modules like http-server, Marathon, inquirer, path, mongo DB, Micro Services, Request, Elastic Search, express, luck, spark, and templating engines.
- Worked with Relational and no SQL databases like MongoDB, Oracle, PostgreSQL, MySQL. Hands on experience writing SQL Queries.
- Implemented Kafka for efficient and scalable event- driven Microservices.
- Used Jenkins for build Process to Generate Continuous Integration with GIT Version Control.
- Drive and/or support business development including sales calls, preparing technical responses with estimated project scope, costs, duration, and resource requirements in written proposals.
- Participate in recruiting (sourcing & interviewing) of technical staff.
- Responsible for some staff performance reviews
- An enthusiastic and project-oriented team leader/player with solid communication skills. Motivation to take independent responsibility. Excellent analytical and problem-solving skills and can learn new technologies very fast.

- I am responsible for working with multiple teams, working on Platform, infrastructure, API and integrations, as well as participating in technical discussions, contributing to architecture and mentoring (but still hands-on).

Languages: Java, J2EE, Python, Unix Shells Scripts
Web: HTML5, CSS3, JavaScript, Bootstrap, Media Queries, XML, Angular.JS, Angular 2 / 4 / 5 / 6 / 8, Node.js, Express.js, React.js, PrimeNG
Web Services: RESTful Web Services, SOAP, Spring REST, JSON
Web and Application Servers: Tomcat, Jetty, JBoss, Glassfish, WebLogic, WebSphere
Frameworks: Spring (Boot, Microservices, IOC, MVC, REST, AOP, Security, ORM, Cloud), JPA, Hibernate, Web Services, JAXWS (SOAP), JAXRS (REST), JUnit
Databases: PL / SQL, RBDMS, MySQL, Oracle 11g, DB2, MS SQL Server, h2 Database, MongoDB, Apache Cassandra
Design Patterns: Factory, Singleton, Builder, Object Pool, Adapter, Bridge, Decorator, Facade, Proxy, Command, Observer, Intercepting Filter, Front Controller
SDLC: Waterfall Model, Iterative Model, V-Model, Agile
Tools: Eclipse, PL/SQL Developer, Dreamweaver, Toad, Oracle SQL Developer, MySQL Workbench Editor, MySQL Query Browser, SVN, Git, CVS, ANT, Maven, Jenkins, Ansible
Platforms: OpenBSD, Linux, Microsoft Windows, OpenVMS, MacOS, Solaris, UNIX VM, Dockers
Big Data: Hadoop, Spark, Scala
Cloud Platforms: Amazon Web Services, Google Cloud
Testing: Junit, TestNG, Cucumber**,** Selenium, WebDriver, JMeter, SoapUI, Postman

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 ● June 2017- Oct 2022
Energy and Renewables Company.
Senior Software Engineer
Led teams in developing and integrating platforms, infrastructures, and APIs.
Tasks Performed:
- Provided technical leadership for every phase of the project lifecycle, from concept to solution design, implementation, optimization, and support using Agile/Scrum, Microservice Architecture, DevOps, AWS Cloud
- Set up a microservices system such as service discovery, load-balancing, circuit-breaking, distributed tracing, monitoring, and API gateway using Spring Boot and Spring Cloud.
- Implemented Spring's REST to make the development of RESTful Web services. Created RESTful API for services and integrations.
- Migrated Web applications into AWS. Maintained and built the AWS environment, including setting up VPC environments and created EC2, RDS, S3 instances.
- Implemented end-to-end test strategies, design automation frameworks using TestNG, Mockito and Selenium, write unit/functional tests to drive up code coverage and automation metrics.
- Developed cross-browser, mobile compatible GUI using HTML5, CSS3, JavaScript, Bootstrap, jQuery, Angular. Simulated data in the UI using JSON.
- Developed, configured, and administered DevOps and IT automation solutions.
- Developed n-tier (Logic, presentation, data) service oriented (SOA) application architectures using Spring, Hibernate, JPA, MySQL, MongoDB.
- Came up with data Models and operations on the data with help of UML Diagrams.
- Used MongoDB database to store data, created domain object mapping for MongoDB, Developed DAO layer exposing access to MongoDB, configured spring ORM with MongoDB
- Implemented send and receive AMQP messages on RabbitMQ synchronously and asynchronously.
- Configured and managed OAuth2 authorization and authentication server, resource server, OAuth roles and client.
- Implemented the application CI/CD pipeline Using Jenkins.
- As a SCRUM Master, I lead the team in using Agile methodologies to deliver software through scrum ceremonies like daily scrum meetings, sprint planning, backlog grooming and retrospectives.

Achievements:
- Ensured solutions follow Agile / Scrum approach to development with proper architecture and design.

Technologies Used: Java11, J2EE, JavaScript, Angular 6/8, TypeScript, React.js, MongoDB, PL / SQL, MySQL, TestNG, Selenium WebDriver, Hibernate, Spring, Spring Boot, Spring Actuator, Netflix OSS Components (Eureka, Zuul, Hystrix), Rabbit MQ, JSON, RESTful Web Services, Microservices Architecture, Postman, Maven, Jenkins, SonarQube, GitHub, Eclipse, TestNG, Mockito, Ansible, Oauth2, Agile Development, AWS, Docker, JIRA.

Fenix International, Kampala, Uganda • August 2015 to June 2017
Energy and Renewables company.
Software Developer (Aug 2015 – Jun 2017)
Developed integration, architecture, implementation, and support for renewable energy solutions.
Tasks Performed:
- Participated in Requirements Analysis, Design and Development phases of the project and updated Technical Design Documents.
- Developed different data models that would help to structure the data and its operations.
- Worked with the Managers and created prototypes as per the business requirement.
- Configured Spring to manage Controller and beans and set their dependencies in a context file and integrated middle tier with web layer.
- Implemented of multi-tier applications using web-based technologies like Spring (Boot, Microservices, IOC, MVC, REST, AOP, Security, ORM, Cloud), Hibernate/JPA
- Developed cross-browser, mobile compatible GUI using Advanced HTML5, CSS3, JavaScript, Bootstrap, jQuery, AngularJS. Simulated data in the UI using JSON.
- Called the Restful web services (POST, PUT, DELETE, GET) and developed user interface by using the React JS components, Forms, Events, Keys, Router, Animations and Flux concept for SPA development.
- Created modules, services, templates, directives, services, reactive forms, reusable UI components using Angular 6/8/12, Typescript and Angular CLI to create a SPA.
- Developed Microservices using Spring Boot, Netflix OSS (Zuul, Eureka, Ribbon, Hystrix) and followed domain driven design.
- Used to build/deploy tools such as Jenkins, Docker, and Kubernetes Continuous Integration & Deployment for Microservices.
- Designed and implemented a Kubernetes-based CI/CD pipeline for a microservices architecture, resulting in 50% reduction in deployment time.
- Developing the software solution and writing code using **Pair Programming** and **Test-Driven Development TDD** process.
- Migrated Web applications into AWS. Maintained and built the AWS environment, including setting up VPC environments and created EC2, RDS, S3 instances.
- Implemented end-to-end test strategies, design automation frameworks using TestNG, Mockito and Selenium, write unit/functional tests to drive up code coverage and automation metrics.
- Configured and managed OAuth2 authorization and authentication server, resource server, OAuth roles and client.
- Implemented Kafka for efficient and scalable event- driven Microservices.
- Troubleshoot and resolve complex Kubernetes cluster issues, ensuring minimal downtime.

Technologies Used: Java, JEE, Python, Web Services, Angular2, PrimeNG, JavaScript, HTML5, CSS3, TypeScript, React.js, MongoDB, PL / SQL, MySQL, TestNG, Selenium WebDriver, Hibernate, Spring, Spring Boot, Spring Actuator, Netflix OSS Components (Eureka, Zuul, Hystrix), Rabbit MQ, JSON, RESTful Web Services, Microservices Architecture, Postman, Maven, Jenkins, SonarQube, GitHub, Eclipse, TestNG, Mockito, Ansible, Oauth2, Agile Development, AWS, Docker, JIRA.

EDUCATION
Master of Science in Computer Science
(In progress via distance education; expected completion June 2022)
Maharishi International University, Fairfield, Iowa

Key Courses: Fundamental Programing Practice, Modern Programming Practice, Big Data, Web Programming Practice, Algorithms, Web Application Architecture, Enterprise Architecture, Leadership for Tech Managers

Bachelor of Computer Science
Makerere University, Kampala, Uganda