

# CURRICULUM VITAE

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## KIPROTICH DARIUS KIRUI

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## PROFESSIONAL SUMMARY

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Senior Software Engineer with extensive experience in cloud computing, distributed systems, and software development. Skilled in C++, C#, Java, Python, React.js, and cloud-native technologies for designing scalable, high-performance systems. Expertise in building modern engineering systems and processes that enhance productivity and velocity. Proven ability to lead software development teams, architect resilient solutions, and optimize system performance. Passionate about driving digital transformation and developing robust cloud governance frameworks.

## SKILLS & TECHNOLOGIES

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- **Software Development & Architecture:** Object-oriented programming, API development, distributed systems
- **Cloud & Infrastructure Engineering:** AWS, Google Cloud, Kubernetes, Docker
- **Programming Languages:** Java, PHP, Python, React.js, TypeScript
- **System Performance & Optimization:** Debugging, troubleshooting, performance tuning
- **Security & Compliance:** Cloud security best practices, compliance standards
- **DevOps & CI/CD:** Agile, Scrum, Git, Jenkins, Terraform

## WORK EXPERIENCE

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### Strategic Information's Lead

#### *Centre for Health Solutions (CHS), July 2024 – Present*

- Redesigned the OpenMRS/Taifa Care platform to enhance data capture for targeted health interventions and electronic medical records using Java Spring framework, React.js, MySQL.
- Designed and implemented the CHS Data Warehouse, a centralized repository for CHS-supported health facilities to facilitate advanced data analysis and sharing.
- Built data exchange APIs to transmit health data to DHIS platforms and other data processing systems.
- Performed Extraction, Transformation, and Loading (ETL) of electronic medical record data for visualization, predictive analytics, and data-driven decision-making.
- Developed machine learning models to forecast potential health outcomes and provide actionable insights for patient management in health facilities.
- Led a team of developers in architecting and deploying scalable backend solutions using the Java Spring framework.
- Managed database design, optimization, and performance tuning in MySQL/MariaDB, improving data storage efficiency and retrieval speed.
- Provided technical leadership and mentorship to junior developers, fostering a culture of continuous learning and process improvement.

## **Software Engineer – Cloud & Distributed Systems**

### **Kenya Conference of Catholic Bishops (KCCB) – Kenya AIDS Response Program (KARP), October 2018 – July 2024**

- Designed and developed the KCCB Data Warehouse, a centralized repository for KCCB-supported health facilities, enabling advanced data analysis and secure information sharing.
- Built data exchange APIs to facilitate seamless data transmission to DHIS platforms and other health data processing systems.
- Executed Extraction, Transformation, and Loading (ETL) processes on electronic medical record data to support visualization, predictive analytics, and strategic decision-making.
- Developed machine learning models to predict potential health outcomes and deliver actionable insights for patient care management.
- Led a team of developers in designing and deploying scalable backend solutions using the Java Spring framework.
- Managed database architecture, optimization, and performance tuning in MySQL/MariaDB, enhancing data storage efficiency and retrieval speed.
- Provided technical leadership and mentorship to junior developers, promoting a culture of innovation, collaboration, and continuous improvement.
- Technologies used: Java, Python, React.js

## **Software Developer**

*Palladium Group*

### **Jan 2018 – Sept 2018**

- Enhancing IQCARE System by analyzing business requirements, preparing an action plan, identifying areas of modification.
- Designing and developing IQCARE Database and Migrating data using MSSQL
- Development of Business Logic for data integration to the Web User Interface Using C# and ASP.NET
- Data Analysis and Visualization
- Designing and Development of Web User Interface using C#, ASP.NET, and Angular.js

## **Systems Developer**

*Netsmart Kenya Ltd*

### **Feb 2015 – Dec 2017**

- Full Stack Development of online Ecommerce Systems, Donation, and Fundraising Systems.
- Design and development of Android applications.
- Integration of Online Payment Systems and Social Platforms using SOAP and REST APIs
- System Testing and Debugging for correct system integration, system performance optimization, and data quality.
- Also involved in unit testing, deployment, and support of the applications
- Query designing and generation of reports
- Technologies used: Java, PHP, MySQL

## **EDUCATIONAL BACKGROUND**

### **Bachelor of Science in Computer Technology**

Jomo Kenyatta University of Agriculture and Technology (JKUAT)

2010 – 2013

## REFEREES

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