

# Elvin Owuor

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## Professional Summary

Seasoned Lead Software Engineer with a proven track record in designing, implementing, and optimizing scalable solutions for enterprise applications. My BSc in Biostatistics provides a unique data-driven perspective, enabling me to not only build robust systems but also to ensure they are designed for effective data analysis and to solve complex problems with a strong analytical foundation.

I am proficient in Java, Spring Boot, PHP, and JavaScript, with extensive expertise in cloud infrastructure management across Oracle, AWS, and GCP. My skills with tools like Docker, Kubernetes, and Terraform enable me to streamline deployment pipelines and enhance operational efficiency, while my passion for problem-solving and collaboration helps me deliver innovative solutions that balance functionality, scalability, and security to drive organizational success.

## Skills

- **Software Engineering:** Java, Spring Boot, Spring, Java EE, PHP, Laravel, JavaScript, Vue.js, React.js, GSAP, Inertia, Tailwind
- **Cloud Engineering:** AWS, Google Cloud Platform, Oracle Cloud
- **Data Analytics:** Apache Hadoop, Apache Hive, Amazon Redshift, Tableau, Power BI, Advanced Excel, R, SPSS, GeoDa

## Education

### Jomo Kenyatta University

September 2017 - December 2021

*Bachelor's, Biostatistics*

- A BSc in Biostatistics equips you with advanced skills in statistical analysis, data interpretation, and modeling, empowering you to derive actionable insights from complex datasets and support data-driven decision-making

### Institute of Advanced Technology

January 2017 - May 2017

*Certification, Software Engineering*

- The Advanced Java Development course hones your skills in data structures and algorithms, enabling you to design efficient, high-performance applications.

## Professional Experience

### Fiscus Procuratio LLC

Nairobi Area, Kenya

*Lead Software Engineer*

June 2025 - Present

- **Cloud Architecture & Deployment:** Architected and deployed scalable solutions on AWS and Oracle Cloud, ensuring high availability and performance for enterprise applications.
- **Microservices Development:** Developed and managed microservices using Java Spring Boot, improving system modularity and resilience for high-volume transactions.
- **Web Application Leadership:** Led the full-stack development of web applications using PHP, Laravel, and JavaScript, delivering intuitive and robust user experiences.
- **API Design & Integration:** Designed and built RESTful APIs with Spring Boot and Laravel, facilitating seamless integrations with third-party services and internal systems.
- **CI/CD Automation:** Implemented and maintained automated CI/CD pipelines for applications, significantly reducing deployment cycles and ensuring consistent, quality releases.
- **Database Management:** Managed and optimized MySQL and Oracle databases, improving query performance and data integrity for critical business systems.
- **System Optimization & Testing:** Conducted performance tuning and utilized test-driven development (JUnit, PHPUnit) to optimize applications and ensure code quality.

## **Project Management ERP Limited**

*Senior Software Engineer, Consultant*

**Nairobi Area, Kenya**

*March 2024 - Present*

- **Strategic Advisory:** Provide expert guidance on DevOps practices, including automation, infrastructure management, and deployment strategies, tailored to the client's specific needs.
- **Microservices Design:** Architect and develop Java Spring Boot microservices, ensuring scalability, reliability, and alignment with business objectives.
- **CI/CD Implementation:** Design and implement Continuous Integration and Continuous Deployment (CI/CD) pipelines to streamline development workflows and accelerate delivery cycles.
- **Quality Assurance:** Oversee and enhance QA testing processes, ensuring comprehensive test coverage and high-quality software outputs.
- **Process Optimization:** Analyze and refine existing DevOps processes to improve efficiency, performance, and scalability of applications and systems.
- **Tool Evaluation:** Assess and recommend tools and technologies that align with client requirements and industry best practices.
- **Cross-functional Collaboration:** Work closely with development, operations, and project management teams to integrate DevOps solutions and drive project success.
- **Performance Monitoring:** Implement monitoring and logging solutions to proactively identify and resolve issues, ensuring optimal application performance and reliability.

## **Lean Ventures Limited**

*Lead Software Developer*

**Nairobi Area, Kenya**

*August 2023 - June 2025*

- **Custom ERP System Development:** Lead the development, support, and upgrading of Lean Ventures' custom ERP system, ensuring it aligns with the latest industry standards and enhances operational efficiency, resulting in a 30% increase in productivity.
- **ERP System Integration:** Successfully integrated the ERP system with existing applications by collaborating with cross-functional teams, enabling seamless data exchange and automating processes, which improved data accuracy by 25%.
- **CI/CD Pipeline Implementation:** Designed and maintained robust CI/CD pipelines to automate build, test, and deployment processes, cutting deployment times by 50% and reducing manual errors by 40%.
- **Automation and Scripting:** Developed innovative automation scripts that streamlined routine tasks, improving system provisioning and configuration management efficiency by 35%.
- **Monitoring and Security Implementation:** Implemented comprehensive monitoring systems and advanced security measures, achieving 99.9% system uptime and ensuring compliance with industry standards.
- **Cloud Infrastructure Optimization:** Leveraged AWS, Docker, and Kubernetes to optimize cloud infrastructure, resulting in a 40% cost reduction and enhancing system scalability.
- **Collaboration and Leadership:** Led cross-functional teams in developing high-impact solutions, fostering a collaborative culture that drove innovation and continuous improvement.
- **Process Documentation:** Established detailed documentation processes for configurations and procedures, facilitating knowledge sharing and consistency within the organization, reducing onboarding time for new team members by 20%.

## **Firmcheq Limited**

*Software Developer & Data Analyst*

**Nairobi Area, Kenya**

*October 2022 - August 2023*

- Led full-stack development of B2B platforms for pharmaceutical supply chain practitioners, utilizing Java, Java Spring Boot, PHP, and JavaScript.
- Implemented Google Analytics for site data analytics and visualizations, effectively monitoring transaction metrics.
- Developed an internal ERP system with the Spring, Thymeleaf, and Vue stack to streamline and enhance operational efficiency.
- Spearheaded full-stack Laravel development for business management systems, delivering high-performance and scalable solutions.
- Created SaaS web applications using Laravel and Inertia, specifically designed for pharmaceutical B2B operations.
- Leveraged cloud infrastructure tools such as AWS, Docker, Kubernetes, and Jenkins for deployment and management of applications.
- Applied a strong understanding of data structures and algorithms to optimize system performance and scalability.
- Employed Terraform for infrastructure as code, ensuring consistent and reproducible environments.

- Fostered a culture of continuous improvement and collaboration within cross-functional teams.

## **United Nations Environment Programme**

**Nairobi Area, Kenya**

*Intern: Information Systems Officer*

*March 2022 - September 2022*

- Maintained and enhanced the UNEA Monitoring and Reporting Portal using PHP Phalcon and Vue.js, ensuring efficient tracking of environmental assembly resolutions.
- Redeveloped the InforMEA API in Phalcon PHP within a month, significantly improving performance and usability.
- Engineered the InforMEA toolkit with Java Spring Boot, facilitating streamlined access to environmental data.
- Supported backend DevOps for SAGE, utilizing Laravel and Vue.js to optimize system operations and deployment workflows.
- Designed and implemented Power BI dashboards, delivering critical business insights through advanced data visualization techniques.
- Developed a Jira-based internal service ticketing platform, automating issue tracking and resolution processes.
- Employed data structures and algorithms to enhance system performance and scalability.
- Collaborated with cross-functional teams to drive continuous improvement and foster innovation within development projects.

## **Fiscus Procuratio**

**Nairobi Area, Kenya**

*Lead Software Engineer*

*July 2021 - March 2022*

- **Web Development & Automation:** Developed and deployed web applications using Java Spring Boot, PHP, and Laravel, automating key business workflows in e-commerce and healthcare.
- **System Architecture:** Architected and implemented scalable microservices for a logistics platform, improving system reliability for high-volume transactions.
- **Business System Creation:** Built a custom ERP system using Spring Boot and Laravel, streamlining inventory, billing, and CRM to significantly reduce manual tasks.
- **API & Integration Expertise:** Created robust RESTful APIs with Spring Boot and Laravel, integrating critical services like payment gateways to enable seamless transactions and future growth.
- **Deployment & Efficiency:** Set up and maintained CI/CD pipelines to ensure faster, error-free deployments and automated business processes to enhance overall workflow efficiency.
- **Quality Assurance & Performance:** Utilized TDD with JUnit and PHPUnit for high-quality, bug-free releases, while optimizing application performance through query tuning and caching for faster response times.

## **Kenya National Bureau of Statistics**

**Nairobi Area, Kenya**

*Intern: Statistician*

*March 2021 - July 2021*

- Specialized in Tourism & Transport Statistics within the Macroeconomic Statistics Directorate.
- Conducted in-depth analysis of 2020 tourism and accommodation data using SPSS, providing valuable insights for policy-making and strategic planning.
- Generated comprehensive data visualizations for the 2021 Economic Survey report, enhancing the understanding and communication of key statistical findings.
- Engaged in field work to gather primary data, ensuring accuracy and reliability in statistical reporting.
- Leveraged advanced data analytics techniques on platforms such as Tableau and Power BI to identify trends and patterns, contributing to evidence-based decision-making.
- Utilized technologies including R and Python for statistical analysis and data manipulation.
- Collaborated with cross-functional teams to enhance data collection methodologies and improve overall data quality.

## **Freelance**

**Remote**

*Full Stack Developer(Java, Php, Laravel)*

*March 2017 - March 2021*

- **Custom Web Application Development:** Developed and deployed feature-rich web applications using Java Spring Boot, PHP, and Laravel, automating business workflows for industries such as e-commerce and healthcare, improving operational efficiency and customer engagement.
- **Microservices Architecture:** Designed and implemented a microservices-based architecture for a logistics platform using Java Spring Boot, ensuring modularity, scalability, and improved system reliability for handling high-volume transactions.
- **Custom ERP System:** Built a tailor-made ERP system using Java Spring Boot and Laravel, automating inventory management, billing, and customer relationship processes, resulting in a 35% reduction in manual work and improved business operations.

- **API Development & Integration:** Developed robust RESTful APIs using Spring Boot and Laravel, integrating third-party services such as payment gateways for an e-commerce platform, enabling seamless transactions and future scalability.
- **CI/CD Pipeline Setup:** Built and maintained CI/CD pipelines for Java Spring Boot and Laravel applications, reducing deployment times and ensuring consistent, error-free releases.
- **Automation of Business Processes:** Automated client business operations by developing backend systems with Laravel and Spring Boot, integrated with MySQL databases, reducing manual tasks by 40% and streamlining workflow management.
- **Full-Stack Development:** Delivered full-stack web solutions using Laravel for the backend and Vue.js/JavaScript for the frontend, providing clients with interactive, scalable user experiences.
- **Web Application Debugging & Testing:** Utilized JUnit for test-driven development in Spring Boot applications and PHPUnit for Laravel, ensuring high-quality releases and minimizing production issues through thorough unit and integration testing.
- **Performance Optimization:** Fine-tuned Spring Boot and Laravel applications by optimizing queries, leveraging caching mechanisms, and improving server configurations, resulting in faster response times and reduced server load.

## References

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