



MPAIRWE LAUBEN

SOFTWARE DEVELOPER

Kampala, Uganda, Kampala, 7062, Uganda

+256773336896

mpairwelauben75@gmail.com

ABOUT ME

With 5+ years of experience as a DevOps Engineer, my career has been defined by continuous learning and adaptation. I've honed my skills in infrastructure automation, cloud technologies, and CI/CD pipelines, consistently evolving with the ever-changing landscape of DevOps. My journey has instilled a deep understanding of system reliability and performance optimization. Looking ahead, I aspire to leverage my expertise to drive innovation and efficiency within a forward-thinking organization, contributing to its long-term success.

SKILLS

FLUTTER

REACT NATIVE

KOTLIN

SWIFT

JAVA SPRING BOOT

ANDROID SDK

ANGULAR

API INTEGRATION

FIREBASE

CI/CD

DOCKER

ENCRYPTION

EXPRESS.JS

JAVASCRIPT

TYPESCRIPT

NODE.JS

MONGODB

MYSQL

POSTGRESQL

OBJECT-ORIENTED PROGRAMMING (OOP)

KUBERNETES

PYTHON OPEN SOURCE AND ENTERPRISE FRAMEWORKS

LINKS

LinkedIn:
<https://www.linkedin.com/in/mpairwe-lauben-4a1461344>

Portfolio:
<https://mpairweportfolio.vercel.app/>

GitHub:
<https://github.com/mpairweLandw>

LANGUAGES

ENGLISH

GERMANY

REFERENCES

DR. KIMBUGWE NASSER
Makerere University
T: +256 701 203827
E: nkimbugwe@cit.ac.ug

KALEMA MARTIN
AIBOS Uganda
T: 0709397123
E: kalema.martin@aibos2100.onmi.crost.com

DR. MARK MAGUMBA
Makerere University
T: +353 89 980 9222
E: magumbamark@hotmail.com

FAHADI NGUYENGUYE
Pahappa
E: fahadi@pahappa.com

PERSONAL DETAILS

Date of birth
22 Oct 1995

Nationality
Uganda

Visa status
Approved

Marital status
Single

WORK EXPERIENCE

AIBOS UGANDA

Kampala
Feb 2024 - Present

Devops Engineer

- Designed, implemented, and maintained CI/CD pipelines using GitHub Actions to streamline build, test, and deployment workflows.
- Automated infrastructure provisioning and configuration using Terraform, applying infrastructure-as-code best practices and version control.
- Managed and optimized containerized applications using Docker and orchestration platforms such as Kubernetes and ECS.
- Monitored system performance, availability, and reliability using tools like Prometheus and Grafana, contributing to proactive issue detection.
- Applied infrastructure-as-code principles to ensure environment consistency, support code reviews, and improve deployment reliability.
- Collaborated with development teams to improve deployment processes, release management, and overall environment stability.
- Implemented security and compliance practices by managing secrets, access controls, patching, and vulnerability scanning across environments.
- Troubleshoot production issues, performed root cause analysis, and implemented long-term preventative improvements to reduce recurring incidents.
- Managed cloud infrastructure on AWS, Azure, or GCP, including networking, storage, compute, and IAM configurations to support application workloads.

IONA TECH

Kampala
Feb 2023 - Present

AI AND MACHINE LEARNING ENGINEER

- Design, implement, and optimize machine learning models for classification, regression, and recommendation tasks.
- Build, deploy, and maintain end-to-end ML pipelines in production environments.
- Perform data preprocessing, feature engineering, and exploratory data analysis on large, noisy datasets.
- Collaborate with product and engineering teams to translate business problems into ML solutions.
- Evaluate models using appropriate metrics, A/B tests, and statistical validation techniques.
- Optimize model performance for latency, throughput, and resource utilization in real-time systems.
- Implement robust monitoring, logging, and alerting for deployed ML services.
- Write clean, maintainable, and well-tested code in Python and relevant ML frameworks.
- Research, prototype, and benchmark new algorithms and architectures to improve existing solutions.

MAKERERE UNIVERSITY

Kampala
Jan 2022 - Present

Student Software Engineer

- Developed TaskApp using Kotlin, a task management mobile application featuring real-time synchronization to enhance user productivity.
- Engineered scalable applications using React Native and Flutter for both academic and freelance projects, demonstrating versatility in cross-platform development.
- Implemented secure authentication workflows, contributing to robust app security and user trust.
- Optimized mobile app performance, ensuring a seamless user experience and reducing lag.
- Spearheaded the development of a fintech mobile app, focusing on digital payments, user rewards, and transaction tracking to meet the growing demand for mobile financial services.
- Integrated third-party payment APIs, facilitating reliable and secure payment processing.
- Designed a scalable app architecture capable of handling high transaction volumes, preparing the app for future growth and user base expansion.

PAHAPPA LIMITED

Ntinda, Kampala
Jun 2022 - Jan 2024

Devops Intern and Employee

- Developed enterprise applications using Spring Boot, integrating Spring MVC, Spring Data JPA, Spring Security, and Spring Cloud to support scalable backend services.
- Implemented Hibernate ORM with JPA for efficient database interactions, applying caching optimizations to improve data access performance.
- Integrated and maintained multiple database platforms including MySQL, PostgreSQL, Oracle, and MongoDB, ensuring consistent and reliable data handling across environments.
- Designed and developed applications using both Microservices and Monolithic architectures, selecting and applying the appropriate pattern based on project requirements.
- Built RESTful APIs to enable communication between services and external systems, contributing to event-driven architecture components to support asynchronous workflows and integrations.

WEB INFO-NET LIMITED

Kampala
Jun 2018 - Aug 2022

Application Developer Intern and Trainer

- Maintained up-to-date knowledge of mobile development technologies to improve application efficiency and reliability.
- Designed and developed mobile applications using Swift, Java, and Kotlin, aligning implementations with platform-specific best practices.
- Built an Employment Management, Contribution, and Tracking system using Odoo to support streamlined employee-related processes.
- Implemented secure authentication mechanisms and configured API integrations to enable protected and seamless user access.
- Provided Level 1 technical support for mobile application deployment issues, ensuring timely identification and resolution of basic incidents.
- Participated in troubleshooting and debugging activities to refine performance and stability of Android and iOS applications.

ZALONIDENTALHUB

Apr 2022 - Present

Leading Developer and Maintainer

- Spearheaded the full software development lifecycle of advanced dental practice solutions, from initial design to successful deployment.
- Engineered robust desktop systems using C#/VB.NET for efficient inventory and patient management, optimizing clinic workflows.
- Led the development of a Flutter-based mobile application, integrating e-commerce and appointment scheduling features to enhance patient engagement.
- Ensured seamless desktop-mobile interoperability, facilitating a cohesive user experience and improving clinic operations.
- Directed a team in creating comprehensive software architectures, establishing a solid foundation for scalable and maintainable systems.

EDUCATION

MAKERERE UNIVERSITY

Kampala
2027

Bachelor of Science in Software Engineering

- Achieved a CGPA of 4.31 in B.Sc. in Software Engineering, specializing in Artificial Intelligence (AI), Machine Learning (ML), and Enterprise Application Development with a focus on User Experience (UX).
- Integrated Supabase, MongoDB, Cloudflare R2, and Firebase to deliver scalable, cloud-based storage solutions for web and mobile applications.
- Implemented role-based access control (RBAC) and data encryption to strengthen application security and data protection.
- Developed a Human Resource Management System (HRMS) to improve employee workflow management and operational efficiency.
- Gained hands-on experience with IoT and Embedded Systems, focusing on device integration and real-time data processing.
- Integrated secure authentication and access control mechanisms to ensure reliable identity management and system integrity.
- Optimized database interactions and performance using advanced PostgreSQL techniques, including query optimization and indexing.

MAKERERE UNIVERSITY

Kampala
2024

Bachelor of Science in Computer Engineering

- Transitioned from Computer to Software Engineering, blending both strengths
- Leverage Digital Electronics expertise to design efficient software solutions
- Hands-on in hardware repair & maintenance, boosting system reliability

UGANDA TECHNICAL COLLEGE - LIRA

Lira
2018

National Diploma in Information Communication Technology

- Achieved a CGPA of 4.77 in B.Sc.
- National Diploma in Information and Communication Technology.
- Specialized in Database Management and Web Development.
- Acquired proficiency in Internet-based technologies with practical skills.
- Implemented Role-Based Access Control (RBAC) and Data Encryption for enhanced application security.
- Gained expertise in Java technologies and application development.
- Developed knowledge in Computer Networking and Server Configuration.

BOSTON HIGH SCHOOL-MPALA

Kampala
2015

High School Education

- Graduated top 5% of class.
- Varsity Debate Team Captain.