

# David Seme Luvai

Software Engineer | Data Analyst

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## EXPERIENCE

### Software Engineer & Lead Data Analyst

LociAfrica | Oct 2023 – Present | Onsite

- Developed and customized ERP solutions using Microsoft Dynamics NAV/Business Central and .NET, streamlining enterprise operations.
- Built and maintained Android applications, enhancing operational efficiency and field data collection.
- Designed and deployed interactive Power BI dashboards, empowering leadership with real-time business intelligence.
- Integrated Microsoft Business Dynamics NAV with external portals, ensuring seamless, secure data synchronization.
- Led data migration and business process automation initiatives, improving reporting speed by 45%.

### Robotics & STEM Instructor

ChezaStemEd | Sep 2023 – Nov 2024 | Part-Time

- Designed and delivered inclusive STEM education workshops, introducing 100+ underrepresented students to robotics, Python, and Scratch programming.
- Developed tailored interactive lesson plans, improving student engagement and retention by 30%.
- Mentored learners in critical problem-solving skills and showcased diverse career pathways in STEM fields.
- Supported community outreach initiatives to promote diversity, equity, and inclusion (DEI) in technology education.

### Junior Software Engineer Intern

ByteCity Inc. | May 2022 – Aug 2022 | Onsite

- Built and maintained Django-based web applications, incorporating modern UI/UX practices with Tailwind CSS.
- Assisted in relational database design (PostgreSQL), unit testing, debugging, and agile sprint cycles.
- Collaborated in CI/CD workflows with GitHub Actions, strengthening team software delivery pipelines.

## **COMMUNITY ENGAGEMENT**

- Volunteer Mentor, Tech4Good Kenya – guided high school students in building basic mobile apps (2024).
- Contributor, Open Source ERP Enhancements – improved open-source ERP documentation and plugins (Ongoing).
- Organizer, Nairobi Power BI User Group Meetups (2024) – facilitated community workshops on business intelligence tools.

## **TECHNICAL SKILLS**

- Programming & Development: Python, JavaScript, .NET, Django, Android Development, SQL, Flutter (beginner)
- ERP & System Integration: Microsoft Dynamics NAV/Business Central, API Development, System Customizations, Jet Reports
- Data & Analytics: Microsoft Power BI, PostgreSQL, Data Visualization, Exploratory Data Analysis (EDA)
- DevOps & Cloud: GitHub Actions, Docker (basic proficiency)
- Professional Skills: Problem-solving, Business Analysis, Communication, Agile Development, Adaptability

## **PROJECTS**

### **ERP Sales Analysis System**

Developed a Python-based automated system for tracking and analyzing customer sales transactions with CSV integration and visual reporting.

### **Hotel Chatbot (NLP Project)**

Designed an intelligent chatbot using Python (NLTK) for hotel reservations, customer FAQs, and meal recommendations.

### **Hotel Management System (Web & Mobile)**

Built a secure, full-stack hotel booking system featuring authentication, payment gateways, and reservation management.

### **Customer Churn Prediction Model**

Developed and evaluated a machine learning model to predict customer attrition in a subscription-based service.

### **Therapy Mobile App (Flutter)**

Started the foundation for a Flutter-based therapy support application, focused on mental health professionals.

## **EDUCATION**

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

The Co-operative University of Kenya | Sep 2019 – Dec 2023

GPA: 3.6/4.0

## **CERTIFICATES**

- Microsoft Certified: Power Platform Fundamentals (2025)
- Certified ERP Specialist (2025)
- Data Visualization with Power BI – Udemy (Completed 2024)

## **INTERESTS**

ERP Systems, Open Source Contributions, Web Assembly, Blockchain Technology, Data-Driven Business Strategy, Hackathons, Formula 1, Basketball, Photography.

## **REFERENCES**

### **Duncan Mwirigi**

Chief Executive Officer | ByteCity Inc.

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### **Walter Kiprono**

Senior Software Engineer | LociAfrica

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