

James Nderema

Software Developer | Full-Stack Developer

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PROFESSIONAL SUMMARY

Computer Science graduate and fullstack developer with hands-on PHP experience alongside modern JavaScript stacks (React, Node.js/Express, Django). Comfortable working across the stack - from database design to UI - with practical exposure to refactoring and restructuring existing codebases. Built and analyzed transaction and record-based systems (POS valuation, fee/payment tracking, results management), giving direct familiarity with the kind of structured, rules-driven data that lending and financial products depend on. Interested in studying an existing PHP codebase, identifying architectural weaknesses, and rebuilding it on a more maintainable, scalable foundation.

TECHNICAL SKILLS

- Backend: PHP, Node.js/Express, Django (Python) - REST API design, MVC architecture
- Frontend: React, React Native, Next.js, JavaScript (ES6+), HTML/CSS
- Databases: MySQL / PostgreSQL - schema design, relational data modeling, junction tables
- Real-time & Messaging: Socket.IO, Redis (pub/sub, presence)
- Architecture & Practices: Refactoring legacy code, modular/MVC restructuring, version control (Git/GitHub), UML/system design diagrams
- Data & Reporting: Excel, Power Query, Python (NumPy, pandas, matplotlib) for analysis and reporting layers
- Domain-adjacent: Transaction/record-based systems (POS valuation, fee tracking) relevant to lending and financial data structures

EDUCATION

Bachelor of Science in Computer Science

September 2022 – May 2026

Technical University Of Mombasa, Mombasa kenya

Four-year program covering the theoretical and practical foundations of computer science, with a growing focus on data analysis and applied programming in later years. Coursework combined core software development with statistics and data-driven problem solving, complemented by hands-on academic projects using Excel, Power Query, and Python.

- Relevant coursework: Data Structures & Algorithms, Database Systems, Statistics, Data Analytics, Software Engineering and different programming languages(PHP, Javascript, Java, C++)

PROJECTS

Portfolio: www.jamesnderem.tech - visit for full write-ups, screenshots, and code for the projects below and other recent work.

Sports Website (PHP)

July 2026

Tools: PHP, MySQL, HTML/CSS, JavaScript

- Built a sports website in PHP covering; match fixtures, results, team/player profiles, news updates.
- Designed a MySQL database schema to store and manage teams, matches, scores, standings.
- Implemented dynamic PHP pages to pull and display live/updated content from the database

POS Shop Valuation & Statistics

March 2026

Tools: Excel, Power Query, Python (pandas, NumPy, matplotlib)

- Analyzed point-of-sale transaction data to assess shop performance, stock turnover, and profitability - structurally similar to transaction-based lending data
- Used Power Query to clean and merge sales records; applied NumPy/pandas for statistical valuation calculations
- Built matplotlib visualizations (trend lines, sales-by-category breakdowns) to support pricing and stocking decisions
- Delivered a summarized valuation report highlighting top-performing products and revenue trends

Real-Time Chat Application (Full-Stack)

May 2026

Tools: React Native, Node.js/Express, Socket.IO, PostgreSQL, Redis

- Designed and built a full-stack mobile chat application with real-time messaging via Socket.IO
- Modeled a relational PostgreSQL schema for persistent message storage and used Redis for presence/pub-sub
- Produced UML sequence diagrams and system architecture documentation for the application

School Results Management

March 2025

Tools: Excel, Power Query, Python (pandas, NumPy, matplotlib)

- Built a dashboard to consolidate and analyze student results across classes/terms, automating data imports with Power Query
- Used pandas and NumPy to compute grade distributions, subject averages, and pass/fail rates
- Visualized performance trends with matplotlib charts and an interactive Excel PivotTable/PivotChart view

School Fees Analysis

September 2025

Tools: Excel, Power Query, Python (pandas, NumPy, matplotlib)

- Cleaned and structured raw fee payment records using Power Query, resolving duplicates and missing entries
- Analyzed payment trends, arrears, and collection rates by class/term using Python (pandas, NumPy)
- Designed visual summaries to track outstanding balances and collection performance over time

EXPERIENCE

Excel Tutor for Teachers

March 2025 – November 2025

Good People Organization , Kwale, Kenya

- Delivered Microsoft Excel training to multiple batches of teaching staff, covering formulas, PivotTables, and data organization for administrative and academic use
- Designed session materials and practice exercises tailored to participants' varying levels of digital literacy
- Supported teachers in applying Excel to real tasks such as gradebooks, attendance tracking, and results summaries
- Adapted teaching pace and approach across different batches to accommodate diverse learning speeds

CERTIFICATIONS

- Computer Science Graduate

ADDITIONAL INFORMATION

- Languages: English (Fluent), Swahili (Fluent)
- Interests: Ready to learn new skills and to collaborate

REFERENCES

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