ENOCKEVANS KIRUI

Software Developer Internship

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PROFESSIONAL SUMMARY

Software developer with 4+ years of experience in web development, business application development, workflow automation, and database integration. Proficient in JavaScript, Python, HTML, CSS, React, Node.js, SQL, and REST APIs. Experienced in developing business management applications with ERP-related functionality, automating data processing, and integrating systems to improve operational efficiency. Skilled in project planning, requirements gathering, problem-solving, and delivering software solutions. Currently pursuing an M.S. in Data Science and Analytics at Grand Valley State University.

PROJECTS

CMS Hospital Data Analysis | GitHub Repository

- Analyze CMS hospital data using Python (Pandas), SQL, R, Excel, and Power BI; perform exploratory data analysis (EDA), data cleaning, validation, and statistical summaries.
- Investigate missing values, duplicate records, inconsistent data types, and other data quality issues to prepare reliable datasets for analysis.
- Use SQL filtering, grouping, and aggregation to calculate metrics and produce analytical summaries for hospital data.
- Create statistical summaries, visualizations, reports, and dashboards to support hospital performance and historical trend analysis.

AI-Assisted Care Reporting & Document Analysis System | GitHub Repository

- Integrated an AI API to generate narrative analysis and automated summaries from monthly care data, improving consistency in recurring reporting.
- Used React, Node.js, Python, MySQL, and Chart.js to process uploaded care data and produce analysis, visualizations, and reports for staff.
- Built automated data workflows for Excel/CSV ingestion, structured JSON processing, and AI-assisted reporting, establishing a foundation for ETL and data pipeline development.

Predicting Inventory Needs - Linear Regression Mini-Competition

- Applied linear regression, a supervised learning technique, in R and R Markdown for inventory predictive modeling; shared analysis and project documentation on GitHub.

Inventra POS - Hybrid POS and Inventory Management System | GitHub Repository

- Developed a business management application using React, Electron, JavaScript, Node.js, and SQLite.
- Implemented workflow automation and two-way data synchronization between local SQLite and cloud databases to reduce repetitive data entry.
- Built ERP-related functionality covering inventory management, sales transactions, customer records, and business reporting.
- Managed software development activities, including feature planning, GitHub version control, testing, and technical documentation.

WORK EXPERIENCE

Custom Software Developer | Zelic Commercial Investment
Dec 2019 - Mar 2024

Nairobi, Kenya

- Developed and maintained POS, inventory, school accounting, and other business systems, translating operational requirements into reliable software and database solutions.
- Designed and optimized SQL/SQLite databases, queries, and reporting workflows to improve data accuracy, retrieval, and day-to-day business reporting.
- Automated recurring business processes and data workflows, reducing manual data entry and improving consistency across operational records.
- Built reporting and analytics features that enabled users to track sales, inventory, financial records, and other key business metrics.
- Collaborated directly with business owners, accountants, and end users to gather requirements, troubleshoot data issues, refine reports, and improve system functionality.

SKILLS

JavaScript, Python, HTML, CSS, PHP, React, Node.js, Express.js, Electron, Android Application Development, Eclipse IDE, Workflow Automation, REST APIs, JSON, CSV Processing, Database Integration, Data Synchronization, SQL, MySQL, PostgreSQL, SQLite, Inventory Management, POS Systems, ERP-Related Business Workflows, Git, GitHub, VS Code, Requirements Gathering, Project Management, Software Testing, Debugging, Technical Documentation, Data Analysis, Pandas, AI API Integration, Data Visualization, Reporting, Communication, Teamwork, Critical Thinking, Adaptability, Time Management, Problem-Solving, Collaboration, Attention to Detail

EDUCATION

Master of Science in Data Science and Analytics
Expected Graduation: May 2027

Grand Valley State University, Allendale, MI

Bachelor of Science in Computer Science
Dec 2021

Kabarak University, Nakuru, Kenya

RELEVANT COURSEWORK

Statistical Analysis and Experimentation, ANOVA, MANOVA, Hypothesis Testing, Supervised Learning, Unsupervised Learning, Predictive Modeling, Data Visualization, Data Engineering, Cloud Applications Development, Relational Database Management Systems, Data Structures, Algorithms, Object-Oriented Programming, Software Quality Management