Nyangi **Jeremy Okello**

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Education

Moi University   *Eldoret, Kenya*
BSc. in Computer Science   *Sep 2019 – Sep 2024*

Work Experience

IbuQa Limited (Start Up Company) - https://ibuqa.io/   *Kindaruma Apartments, Nairobi, Kenya*
Junior Software Engineer Responsibilities   *November 2022 – March 2023*

- Bug Reporting - Involved meticulously scrutinizing our logistics management software, I adeptly identified and meticulously documented software irregularities and discrepancies. Leveraging my technical acumen, I effectively communicated intricate bug details, facilitating swift resolution and seamless system optimization.
- Data Visualization Analysis - I skillfully curated and transformed complex datasets into visually compelling insights, employing advanced techniques in dimensional analysis and visualization. With a keen focus on measurement precision and insightful interpretation, I delved into exploratory analysis, meticulously crafting visual representations that illuminated key trends and patterns within our data ecosystem.This underscored the importance of leveraging data as a strategic asset, fostering a culture of data-driven decision-making within ibuQa.
- Re-platforming - analyzed existing systems and identified areas ripe for optimization and improvement. Through comprehensive assessment and strategic planning, I delineated integration pathways to seamlessly transition our software infrastructure to modern frameworks.
- Sprint planning - I actively participated in sprint planning sessions to define project objectives, refine backlog items, select user stories, estimate effort, and define acceptance criteria. Collaborated closely with cross-functional teams to ensure alignment with project goals and priorities, contributing to the successful completion of sprint deliverables and fostering a culture of Agile development practices.
- Code Inspection - I actively participated in code inspection processes to review and analyze source code, identify defects, improve code quality, and ensure adherence to coding standards and best practices. Collaborated closely with team members to provide constructive feedback, address issues, and promote knowledge sharing and learning within the development team.
- User Acceptance Testing - I actively contributed to User Acceptance Testing (UAT) processes, playing a pivotal role in ensuring the seamless alignment of software solutions with the company's logistics objectives. Engaged collaboratively with stakeholders and end-users to validate system functionality, verify business requirements, and identify opportunities for enhancement.
- Documentation - I assumed responsibility for documentation during morning stand-up sessions, ensuring clear and concise communication of project status updates and action items among team members. Diligently documented discussions, decisions, and task assignments, facilitating efficient collaboration and alignment towards the company's logistics objectives.
- Prototyping - I played a pivotal role in prototyping initiatives aimed at enhancing the company's logistics solutions. Leveraging innovative prototyping methodologies and technologies, contributed to the exploration and validation of new features, functionalities, and user experiences aligned with the company's route-to-market objectives.
- Semantic Versioning And Color coding - I Implemented robust version control practices to track and manage changes across software iterations, ensuring seamless collaboration and accountability among development teams. Additionally, developed and implemented color coding conventions to visually differentiate and categorize critical components within the user interface, promoting intuitive navigation and enhancing user experience.
- UI/UX development - I Collaborated closely with cross-functional teams to conceptualize, design, and implement intuitive user interfaces that streamline route-to-market operations for manufacturers, distributors, and last-mile delivery businesses. Leveraged expertise in UI/UX principles and best practices to create engaging and accessible interfaces that prioritize user experience and drive user adoption.
- Bug Bounty Hunting - I actively participated in Bug Bounty Fridays, an initiative aimed at enhancing the security and resilience of our systems through rigorous testing and vulnerability assessment.
- White boarding - I actively engaged in whiteboarding sessions to facilitate collaborative problem-solving and solution design processes essential to achieving the company's logistics goals. Leveraging whiteboarding techniques, contributed to the visual exploration and conceptualization of innovative software solutions tailored to address complex challenges within route-to-market operations.

Skills

Python Programming:	Django, Webscraping, Database Integration with PostgreSQL, TDD, OOP, ML, Flask
Git:	CI/CD pipelining, Branch Management, Code Reviews, Git Best Practices, Version Control
Linux:	Shell Scripting, Networking, CI/CD, Containerization with Docker
Software Debugging:	Diagnosis, Experimentation, Bug reproduction, Prediction, Hypothesis, Assertions and Testing
UI/UX:	HTML5, CSS3, Bootstrap, JavaScript
Ansible:	Playbooks, Roles and Include statements, Variables and facts, Inventory Management
Sentry:	Error Tracking And Management, Application Performance Monitoring
Scrum:	Communicaton skills, Agile Principles, Metrics and Reporting, Continuous Improvement
Assertive Programming:	Error Handling, Input Validation, Code Reviews And Testing

Projects

Selenium School Project

A WEB-SCRAPING APP MEANT TO AUTOMATE INPUTTING PUPILS' MARKS FROM EXCEL FILES TO THEIR SCHOOL WEBSITE

Python Selenium, Google API client, Python Libraries
https://github.com/Jere-my98/SeleniumSchoolProject

Titanic Survival Prediction

THIS IS A MACHINE LEARNING PROJECT PREDICTING THE CHANCES OF SURVIVAL IF YOU WERE IN THE TITANIC.

Python Libraries, Jupyter Notebook
https://github.com/Jere-my98/TITANIC-SURVIVAL-PREDICTION

OCR - Optical Character Recognition System

AN APPLICATION MEANT TO CONVERT TEXT IMAGES TO PLAIN TEXT AND AUDIO. GIVES AUDIO TRANSLATIONS FOR THE LANGUAGE OF YOUR CHOICE

Python Flask Framework, Python Libraries
https://github.com/Jere-my98/OCR

Food Ecommerce App

A COMPREHENSIVE FOOD ECOMMERCE PLATFORM USING DJANGO REST FRAMEWORK. THIS PROJECT AIMED TO PROVIDE A SEAMLESS AND USER-FRIENDLY ONLINE MARKETPLACE FOR PURCHASING FOOD ITEMS FROM VARIOUS VENDORS. THIS IS STILL IN DEVELOPMENT

Python Libraries, Docker, Django REST framework
https://github.com/Jere-my98/ecommerce

PlantiT! (Pair Programming Campus Project)

PLANTIT! IS A WEB-BASED APPLICATION DESIGNED TO REVOLUTIONIZE THE MANAGEMENT AND MONITORING OF ENVIIRONMENTAL CONDITIONS WITHIN GREENHOUSES. THIS APPLICATION EMPOWERS USERS TO TRACK AND OPTIMIZE PLANT TEMPERATURE, HUMIDITY, AND SURFACE TEMPERATURE, ENSURING OPTIMAL CONDITIONS FOR PLANT GROWTH AND HEALTH BY PROVIDING REAL-TIME DATA, ENABLING USERS TO MAKE INFORMED DECISIONS AND ADJUSTMENTS

Python Flask, JavaScript, HTML5, CSS3, SQL
https://github.com/josep562/Green-House-Monitoring-System

Awards

April 2022	**Certificate Of Completion**, For Successfully completing the train of trainer training of the basic technology level including Digital Literacy, Microsoft Office, Office 365, and Hour of Code as part of the Coding for Employment Program	*Microsoft*