CV – Maureen Nduta

Name   Maureen Nduta

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Career Profile

A dedicated Software Developer with demonstrable experience in web development and data science. Proficient in AGILE software development using Jira for Project Management and tracking. Skilled in Python, ReactJS, AngularJS, TypeScript, Carbon Design, Tailwind CSS programming languages. Enthusiastic about specializing in data science. Trained in data munging, data mining and data extraction as well as data analysis and data visualization. I have a keen interest in how data intersects with the real world and influences the human experience.

An innovative learner who is enthusiastic about community and societal benefits of technology. A diligent worker looking for a chance to make a difference.

Experience
Digital Health Intern, Jhpiego Corporation
April 2022 – October 2022
- Contributed to cleaning and presentation of regional health data using Python and CSV-Dedupe. Restored related databases using PostgreSQL to store the resulting .csv files.
- Utilized QGIS to create visualizations based on population densities, geographical features and regional landmarks to create globally accurate maps.
- Used ArcGIS to mimic population density maps created in previous use cases to establish an overarching pattern.
- Facilitated learning sessions using Python and Seaborn to create visualizations with the M&E Botswana team. This is in an effort to expand the skillset of the Kenyan team.
- Used ReactJS and carbon to create a website application adhering to global UI/UX standards. This tool will allow non-technical staff to use the python csvdedupe script.
- Utilized PostgreSQL in implementation of dedupe for regional data. This allowed us to spot discrepancies in reported data.
- Utilized Python to connect to DHIS2 to fetch PREP data with an aim to clean and analyze.
- Created Spatial Indexes using PostGIS with the aim of data compression and boosting data security.

- Supporting Global IT Summit. Activities included registration, acting as a liaison between the event participants and the hotel and updating guests on any changes. Earned a certificate towards the same.

Junior Software Developer, AMPATH Kenya

May 2021 – Nov 2021

- Client application programming. Contributed to the open source project OpenMRS (Medical Record System) Global Platform UI/UX designs. Used Carbon and Tailwind CSS to design and build a HR Enterprise Management System. Was able to design wireframes using Balsamiq Cloud and convert them to accurate User Interfaces.
- Server application programming. Used NodeJS and MySQL to incorporate a working database for internal inventory systems and external global health systems. Made use of the same to implement translations for Spanish and French speakers.
- CI/CD. Able to incorporate GitHub workflows in a NextJS and Husky project to automate builds and performed Unit Testing both locally and production to maintain system source code and coding standards. Used Jira to log change requests, track progress and report bugs/issues noted while working on the OpenMRS platform.
- SDLC. Conducted iterative SDLC steps to create an internal HR Enterprise Management System. This was subsequently utilized by HR to track payrolls and timesheets. The system implemented access control functionality.
- DevOps and SDLC. Used Docker to unify code and ensure application maintenance and management. This allowed the team to understand the development life cycle and deploy changes to production more efficiently.
- Installed and configured different operating systems on work machines.
- Able to work with minimal supervision and as a team or individually.
- A curious learner who is able to learn new technologies under appropriate training.

Freelance Web Developer/Data Scientist May 2019 – Present

- Built a COVID-19 visualization dashboard to track vaccination globally. Explored the datasets using Exploratory Data Analysis methodologies, linear regression and clustering. Used Python and HighCharts.js to create the visualizations.
  Link: https://www.kaggle.com/mnduta57
- Built a website for AbsoluteDay Spa, Karen. The purpose of this website was to give the client an online presence. Leveraged Search Engine Optimization (SEO)

meta tags and utilized the Bootstrap Framework in addition to vanilla JavaScript.
Link: https://maureennduta.github.io/Absolute-Day-Spa/

- Built a minimal viable product for a promising new startup as a precursor for the eventual website. Worked with ReactJS, IBM Carbon Design and Sass technologies according to client requests.
  Link: https://mvp-ipi.vercel.app/
- Built, managed and supported an on-premises Inventory Management System using Python and MySQL. The system ran on windows and the UI was built using Tkinter. App was able to export reports in Excel and CSV.
- Created and Updated IT support documentation and user guides leading to faster onboarding
- Performed network, software and hardware troubleshooting

Fellowships
Kamilimu – March 2018 – October 2018
Participated in Cohort 3 of an 8-month mentorship program to upskill in Personal and Professional Development, Innovation, ICT skills, Scholarship expertise, and community engagement. Won an award recognizing unique dedication to the mentorship.
Link: Cohort 3 | KamiLimu | Mentees | 2018

Licenses & Certifications

AZ-900: Microsoft Azure Fundamentals

Date attained: October 2022

Data Visualization, Kaggle

Date attained: February 2021

National Science Congress Computer Studies category, Moi Girls High School

Date attained: June 2014

Education

BSc. in Applied Computer Science – Daystar University, Kenya

May 2016 – November 2020

Skills: HTML, CSS, JavaScript, C#, C++, Python, R, RStudio, MySQL, Software Design and Project Management.

Built a Stock Management System for a vehicle dealership in Eldoret. Successfully planned and executed a migration from paper to digital record keeping. The system ushered the company into a digital space as well as expanded its capacity for clientele. Users were able to generate reports and gather meaningful data to inform their future business decisions. Final College Project; scored A.

Publication: *"The role of network security in social media platforms"* – Maureen Nduta ResearchGate, 2020

K.C.S.E – Moi Girls High School. Eldoret, Kenya

February 2012 – November 2015

K.C.P.E – Nairobi, Kenya

January 2009 – December 2011

References

1. Mr. Charles Waka
   Regional Technical Advisor: Monitoring, Evaluation and Research
   Jhpiego – Nairobi, Kenya
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   Email: charles.waka@jhpiego.org

2. Mr. Felix Maiko
   System Engineer
   AMPATH Kenya – Eldoret, Kenya
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