Aisling Akinkugbe

Boston, Massachusetts

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Experience

Novanta Inc
Application Engineer

September 2022 – Present
Bedford, USA

- In charge of developing Lua scripts to automate passport drilling application job and maintain data accuracy across the client's system, enhancing efficiency and reducing process run time by 40%
- Crafted MATLAB and Python scripts to rearrange fiducial marker position lists, improving data organization and accelerating job execution time by 30%
- Implemented automation using **Power Automate and Python** scripts to streamline the quality department's weekly returned materials report generation process, resulting in a 10% increase in personnel productivity
- Utilized deep analysis to troubleshoot and resolve complex application issues, improving overall system performance
- Spearheaded application support for ASFC (**Automated Scan Field Calibration**) project, conducting feasibility tests and fine-tuning laser marking parameters to aid software team

Drexel Recreation Center
Member Services Specialist

June 2021 – June 2022
Philadelphia, USA

- Leveraged positive energy to facilitate clear communication with customers about services offered by Drexel Recreation Center and encourage membership enrollment
- Shared information on all aspects of Recreational Athletics including Member Services, Group Exercise, Facilities, and Sports Clubs.
- Ran the POS & CRM system and entered 50+ orders per hour with zero errors and ensured compliance with the Local Law
- Applied transaction monitoring techniques to manage cash and credit transactions
- Exhibited strong effectiveness in troubleshooting customer issues and implementing prompt solutions to ensure customer satisfaction

Estee Lauder Companies
Industrial Engineer

September 2020 – March 2021
Bristol, USA

- Utilized **Excel** to create production labor standards, optimize direct labor utilization and increase efficiency by 20%
- Developed operational reporting in **Tableau and Power BI** to identify areas of improvement in plant efficiency, resulting in $250,000 increase in plant's annual revenue
- Applied data models and statistical concepts to predict cost standards for cosmetic products, leading to a 15% sales boost in product sales
- Automated monthly plant efficiencies using **Python and Excel** improving plant efficiency by 12%
- Provided technical support to sales team, emphasizing on the application of best practices during troubleshooting and problem resolution of products

MTN Communications LTD
Interim IT Program Manager

January 2020 – March 2020
Lagos, Nigeria

- Significantly boosted customer engagement in MTN Valentine's Day Promotional program by customizing offers like discounted data and call-time vouchers, resulting in a 20% uptick in participation
- Implemented sprint backlogs and burn-down charts to enhance visibility into CLM (**Contract Life-cycle Management**) Enhancement and Eyeballing project, enabling managers to predict performance and plan appropriately
- Utilized arbitration skills to analyze MTN Tidal Subscription data, successfully addressing low subscription rates and boosting promotion subscribers by 30%.
- Led clarification meetings with sales and software development heads to discuss project issues and progress, ensuring alignment and direct communication across teams
- Exhibited a determined attitude in maintaining, optimizing, and improving applications to increase efficiency and productivity

Sparrowatch LTD
Engineering Assistant

September 2019 – December 2019
Dublin, Ireland

- Collaborated with engineers to develop a smart camera capable of distinguishing between people and animals
- Researched and implemented remote triggering methods using PIR (**Passive Infrared**) Sensors and Long-Range Shotgun Microphones to enhance product functionality, increasing market value by 15%
- Coordinated experiments to evaluate efficiency of the smart camera and utilized Python, C, Linux, and machine learning programs to optimize the software and reduce identification errors by 4.5%
- Leveraged knowledge of Computer Science to design and optimize user-focused software solutions
- Used Causal Inference techniques to identify root causes of system failures, leading to a reduction in downtime by 10%

PJM Interconnection LLC
Real Time Data Management Co-op

October 2018 – March 2019
Norristown, USA

- Maintained real-time updates of station model designs to optimize power distribution, enabling the dispatch department to achieve a 90% power distribution rate and reduce power outages by 12.5% caused by obsolete station model designs
- Utilized expertise to manage the data across various software applications, significantly reducing data redundancy and increasing data accuracy
- Investigated and executed TERM (**Transmission Equipment Ratings Monitor**) tickets using both eDART (**Electronic Dispatcher Application and Reporting Tool**) and EMS (**Energy Management System** to decrease transmission line downtime by 10%
- Conducted quarterly one-line display edits using IMM (**Information Management Messenger**) for model updates
- Enhanced customer satisfaction by ensuring timely and accurate technical delivery of model builds

Project Experience

Development of Smart Refrigerator | Senior Design Project   **September 2021 - June 2022**

- Spearheaded the front-end and back-end development of a cross-platform application to send push notifications to users when food's expiration date is approaching using **Flutter, Python, Git, SQL**
- Exhibited reasonable problem-solving skills in troubleshooting complex software issues
- Implemented consumer privacy policies into software applications to enhance user trust and comply with international regulations
- Responsible for troubleshooting and resolving issues within complex systems promptly as an Application Developer
- Demonstrated an optimistic ability to prioritize tasks in the application development process, resulting in timely project completion
- Implemented Root Cause Analysis techniques in aligning application functionality with project's objectives

Development of Electric Motor Vehicle | Personal Project   **March 2021- June 2021**

- Devised an electric circuit and Arduino program that reacts with changes in temperature, distance, and water level to simulate some of the functionalities of modern automobiles of this era using Arduino, servo motors, DC motors, water level and temperature sensors
- Integrated concepts such as Timers and Interrupts, Pulse Width Modulation, and Serial Communications to harmonize the project's parts
- Formulated a Graphical User Interface to simulate a real-time visual of the whole experimental process
- Applied knowledge of Physics to simulate and analyze system behaviors, leading to significant efficiency improvements
- Leveraged ability to synthesize data in developing user-friendly application

Education

Drexel University   **September 2017 – June 2022**
Bachelor of Science in Computer Engineering   *Philadelphia, USA*
Minor in Business Administration

Magna Cum Laude   **Awards**: *Dean's List: 2018 - 2022, Founder's Scholarship 2017 - 2022*

Skills

Languages: Python, HTML, CSS, C, MATLAB, Microsoft Power BI, Tableau, Power Apps, Power Automate, Lua
Developer Tools: VS Code, Android Studio, XCode, AlwaysAI
Technologies/Frameworks: Linux, GitHub, ReactJS, NodeJS, ExpressJS, Git, Flutter, PostgreSQL

CERTIFICATIONS

- Python for Data Analysis - Udemy   • Lua Scripting: Master Complete Lua Programming From Scratch - Udemy
- Microsoft Power Up Program – Power Platform Course Completion • Python for Data Science and Machine Learning -
Udemy   • Power Platform Functional Consultant - Microsoft **(In Progress)**   • SQL - Udemy **(In Progress)**