CURRICLUM VITAE

MESHACK BWIRE

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Professional Experience

May 2023 – Current: Software Engineer (Point of Sale systems) at Tracom Services Limited

Responsibilities:

- Android development.
- Development in C#, JavaScript, and .NET for desk POS systems (Cash Register Integrator and PIN Pad).
- Integration of client Web APIs and Entity Framework.
- PCI compliance.
- Data engineering (Gateway and cloud management)
- Deploying, managing, and orchestrating containerized applications using Kubernetes.
- Leveraged SQL and Python to conduct in-depth data analysis on transactional data, for cashless fuel transactions and terminal management systems.
- Applied strong knowledge of data modeling, access, and storage techniques to design and optimize databases for storing transactional data securely and efficiently.
- Employed Pyramid to create insightful dashboards and reports.
- Creating, managing, and optimizing Docker containers to envelope apps and their dependencies.
- Code review.
- Creation of pipelines on Bitbucket (Git).
- Aiding fellow developers, leading to efficient problem-solving and knowledge sharing.
- Working within Scrum, including participating in daily stand-ups and sprint reviews.
- Conducting Research and creating prototypes on technologies we look forward to include in our stack.

Achievements:

1) Developed the current SDK being used in Awash Bank on all Ingenico Axium DX POS devices.
2) Developed an Android Archive (AAR) file and improved the SDK currently being used by the Cooperative and Rural Development Bank (CRDB) of Tanzania on Nexgo POS devices.
3) Developed and implemented Terminal Management System (TMS) functionalities across POS devices, for CBE (Commercial Bank of Ethiopia), and Quantum (Ethiopia) significantly enhancing remote management capabilities and efficiency.
4) Developed a seamless application for cashless fuel transactions powered by Quantum Technology PLC (Ethiopia), earning recognition for innovation and efficiency.

December 2021 – May 2022: Telecommunications Engineer at Guzzer Technologies

Responsibilities:

- Technical troubleshooting and issue resolution on physical network devices.
- Diagnostic Testing and Cable Inspection.
- Network Construction and Maintenance
- Splicing.

Achievements:

1) Executed network system power migration projects in Westlands, Nairobi, leading to enhanced system efficiency and stability.
2) Contributed to the construction and maintenance of HFC and GPON networks in Dagoretti, Kilimani, and Karen areas in Nairobi County, playing a key role in ensuring seamless connectivity for clients.

September 2021 – November 2021: Data Engineer at African Economic Research Consortium (AERC): Internship

Responsibilities:

- Digital Initiative Alignment across departments
- Document Scanning and Indexing
- Electronic Document and Record Management.
- Leveraged Microsoft Azure to ensure secure storage and seamless access to data.
- SQL server management
- Employed data visualization tools such as PowerBI to create interactive dashboards and reports.

Achievement:

Proficiently indexed and cataloged scanned documents in the Electronic Document and Record Management System (EDMS) software, enhancing future reference capabilities and streamlining document retrieval processes.

2020 – 2021 IT Support Technician at Rita Creations, Events and Luxury Rentals Company: (Casual)

Responsibilities:

- Technical assessments and issue resolution
- Event setups coordination and operations

Achievement:

Organized and efficiently coordinated event setups, ensuring smooth operations and customer satisfaction throughout the event duration. This experience reflects strong organizational and coordination skills.

Educational and Training

2018 – 2022: The Co-operative University of Kenya

Bachelor of Science in Computer Science

July 2021 – October 2021: National Research Fund: Kenya**,** Vetted by University of Nairobi, Kenyatta University and The Co-operative University of Kenya, ODEL Quality Assurance team members.

Data Science with Python

2019 June – December: Multimedia University of Kenya

Huawei Certified ICT Associate in Routing and Switching

2018 February – April: Busia Training Institute of Management and Technology

Computer packages

Skills

- ✓ C, Go, Java, HTML/CSS, Python,.NET, Spring Boot, SQL, Android, AAR, Angular, SSL/TLS, JPOS, GraphQL, Kubernetes, Git, CI/CD (Jenkins, Docker), Cloud Environments (AWS, GCP), Microsoft Azure, API integration, VISA certification, Mastercard certification, Data analysis, PowerBI, Pyramid, Agile Development, PCI, Scrum.

Certification and clearance forms

  i. Bachelor of Science in Computer Science Certificate
 ii. Professional certificate in Data Science with Python
iii. Huawei Certified Network Associate – Routing and Switching
 iv. Certificate of computer packages
  v. Kenya Certificate of Secondary Education
 vi. Certificate of good conduct
vii. Kenya Revenue Authority clearance certificate
viii. National Identification