

# MOHAMMAD SULIEMAN IBRAHIM, BSc

Junior Bioinformatics & Laboratory Professional (Sudanese)|MOH UAE Registered Technologist (Ref: 262476)

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## Professional Summary

Ambitious junior scientist transitioning into **Bioinformatics** with a solid foundation in **Medical Laboratory diagnostics** and recently enhanced expertise in genomics, data science, AI, and problem-solving. Certified by Johns Hopkins, IBM, Google, McKinsey, and ALX-Mastercard. Strong communicator and fast learner, equipped for entry-level roles in genomics, computational biology, or healthcare data analytics.

## Professional Experience

**Applied structured problem-solving frameworks** from McKinsey to optimize lab workflows

**Leveraged AI tools and career branding** learned via ALX to digitalize reporting and communication

### Laboratory Manager & Technologist

Modern Medical & Fertility Center - Somalia

1<sup>st</sup> Aug 2023 — 1<sup>st</sup> May 2025

1. Developed and implemented Quality Control Protocols resulting in a 30% improvement in the result consistency
2. Calibrated and maintained 6+ diagnostic instruments weekly Reducing equipment downtime by 40%
3. Monitored Laboratory inventory and optimized stock usage cutting consumable waste by 32%
4. Performed 1000+ monthly Clinical chemistry Tests(RFT,LFT, Hormones) with 98% Accuracy
5. Performed 200+ monthly Hematology Tests (CBC, PBP, Malaria, etc) with 98% Accuracy
6. Performed advanced semen analyses using CASA systems for over 120 infertility cases, improving diagnostic precision by 35%.
7. Trained and mentored 20+ laboratory graduates, 100% of whom achieved competency certification.

### Laboratory Supervisor & Lecturer

University of Bosaso - Somalia

1<sup>st</sup> January 2021 — 1<sup>st</sup> Sep 2024

1. Designed and implemented lab SOPs and quality protocols, reducing procedural errors by 30%.
2. Delivered 300+ hours of lectures and practical sessions to 100+ medical laboratory students annually.
3. Supervised 25+ graduate trainees across hematology, chemistry, and microbiology, leading to a 95% student satisfaction rate.
4. Managed 4 laboratory departments and ensured 100% equipment functionality via routine maintenance.
5. Conducted skill-based evaluations and helped revise the lab curriculum to meet updated accreditation standards.

### Medical Laboratory Technologist

Alrayan Specialized Laboratory - SUDAN

1<sup>st</sup> March 2019 — 1<sup>st</sup> November 2020

1. Processed and analyzed over 2000 clinical samples per month, maintaining a 97% accuracy rate.
2. Ensured equipment calibration compliance with ISO standards, reducing recalibration frequency by 40%.
3. Generated test reports with an average turnaround time of under 12 hours.
4. Performed 500+ specialized test (ELISA, Immunoblotting, Immunoassay, PCR).

### Medical Laboratory Technologist

National Health Insurance Fund- SUDAN

1<sup>st</sup> July 2015 — 1<sup>st</sup> May 2018

Handled 2000+ tests monthly with high accuracy and streamlined emergency diagnostics.

## EDUCATION

### MSc Qualifying Diploma in Medical Laboratory Sciences

University of Khartoum, Sudan

2016 — 2017

### BSc in Medical Laboratory Sciences Hematology & Immunohematology National University, Sudan

2011 — 2015

## SKILLS

**Bioinformatics & Data Science:** Python (Biopython, Pandas, NumPy, scikit-learn), R (ggplot2, DESeq2, dplyr), SQL, Jupyter Notebook, Google Colab, JupyterLab, Bash/Linux Shell Scripting, Data Visualization (Matplotlib, Seaborn), Data Cleaning & Wrangling, SPSS, Laboratory Information Systems (LIS), Next-Generation Sequencing (NGS), Genomic Data Analysis, Variant Calling (GATK, SAMtools, BEDTools), RNA-Seq Analysis, Workflow Automation (Snakemake, Nextflow), Docker, Biostatistics

**Genomics & Lab Techniques:** PCR, Quantitative PCR (qPCR), ELISA, Spectrophotometry, CASA, Quality Control, DNA/RNA Extraction, Gel Electrophoresis, Genotyping

**AI & Digital Tools:** GitHub Version Control, AI Tools (ChatGPT, Claude, GitHub Copilot), Web Basics (HTML, CSS, JavaScript)

**Soft Skills & Productivity:** Structured Problem-Solving (McKinsey Method), Adaptability, Collaboration, Fast Typing (40 wpm), Attention to Detail, Time Management, Leadership, Teamwork, Communication, Problem Solving

**Quality & Compliance:** ISO 15189, QC/QA Protocols, SOP Development, Internal Audits, Laboratory Safety

**Teaching & Training:** Staff Mentorship, Student Evaluation, Curriculum Support, Practical Instruction

## LANGUAGE

Arabic Native or Bilingual Proficiency  
English Full Professional Proficiency

## LICENSURE

- MOH United Arab Emirates Eligibility Letter (  Ref: 262476)
- National Sudanese Council for Medical & Health Professions License

## QUALIFICATIONS & COURSES

### Bioinformatics & Genomic Technologies

Introduction to Genomic Technologies – Johns Hopkins (May 10, 2024)

Python for Genomic Data Science – Johns Hopkins (Oct 16, 2024)

### Data Science & Decision Making

- What is Data Science? – IBM (Dec 25, 2024)
- Data Science Methodology – IBM (June 15, 2025)
- Tools for Data Science – IBM (May 29, 2025)
- Ask Questions to Make Data-Driven Decisions – Google (Apr 11, 2024)
- Prepare Data for Exploration – Google (May 15, 2024)
- Foundations: Data, Data, Everywhere – Google (Feb 27, 2022)

### AI & Professional Foundations

- AI Career Essentials (AiCE) – ALX Africa, funded by Mastercard (Feb–Mar 2024)
- Teaching in University Science Laboratories – University of Amsterdam (July 4, 2025)
- Getting Started with Front-End & Web Development – IBM (May 19, 2024)
- McKinsey.org Forward Program (10 weeks) – McKinsey & Company

**Training of Trainers (TOT) Noon Training Center - SUDAN July 2018**

**Individual Strategic Planning Better Life Training Center - UK June 2014**

## Published Papers

**Effect of hormonal Imbalance on Semen Quality in male infertility : A Cross-sectional Study in Puntland, Somalia.**