

Ismail El Koubaydi

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Professional Summary

Biomedical Engineering Technician transitioning into **Bioinformatics**, integrating **medical technology, IT, and data analytics** to enhance healthcare solutions. With hands-on experience in **medical equipment installation, maintenance, and calibration**, coupled with a **strong foundation in IT**, I am passionate about leveraging **data-driven innovations** to optimize patient care and **reduce healthcare costs**. Currently pursuing a **B.S. in Information Technology**, focusing on **biomedical data analysis, cloud computing, and informatics solutions**. Adept in **SQL, Python, SAS, Tableau, and cloud technologies**, with a mission to bridge **biomedical engineering and bioinformatics** to create sustainable, efficient healthcare systems.

Education

University of Massachusetts Boston

- *Bachelor of Science (B.S.) in Information Technology* (Graduation Expected 2026)

Roxbury Community College

- *Associate of Arts (A.A.) in Business Administration* (2020 - 2022)

Year Up United Institution

- *Business Analytics Training Program* (2019 - 2020)
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Technical Skills & Certifications

- ✚ **Programming & Data Analysis:** SQL, Python, R, SAS Visual Analytics, Tableau, Power BI
 - ✚ **Bioinformatics Tools & Databases:** Biopython, BLAST, NCBI (GenBank, GEO, PubMed), Machine Learning for Biomedical Data
 - ✚ **Biomedical Systems & IT Integration:** Medical Equipment Maintenance, Electronic Health Records (EHR), IoT in Healthcare
 - ✚ **Cloud & IT Support:** AWS CloudFormation, IT Support, System Administration, Network Troubleshooting
 - ✚ **Certifications:** SQL Fundamentals (SoloLearn), Microsoft Office Specialist (Excel, Word, PowerPoint, Access)
 - ✚ **Languages:** English (Full Professional), French (Full Professional), Arabic (Native)
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Professional Experience

Biomedical Engineering Technician

- 📍 *Lahey Hospital & Medical Center | May 2022 - Present*


- Installed, maintained, and repaired critical medical equipment, ensuring operational efficiency and patient safety.
- Calibrated and tested medical devices to meet regulatory and safety standards.
- Approved and assessed new biomedical equipment, ensuring compliance with standards.
- Conducted in-service training for hospital staff, educating them on equipment use.
- Collected and analyzed biomedical device performance data, identifying trends to enhance efficiency and reduce downtime.
- Ensured data integrity and confidentiality of patient-related usage and maintenance.
- Promoted low-cost maintenance strategies, extending equipment lifespan and reducing operational expenses.

Information Technology Support Supervisor

 *VPNE Parking Solutions | December 2019 – December 2022*


- Led IT system optimization efforts, ensuring seamless technical operations.
- Developed and maintained hardware/software solutions, improving system efficiency.
- Designed user manuals and training programs for IT staff and end-users.
- Implemented cybersecurity protocols, safeguarding company data.


Internal Audit Consultant


 *PTC | Jan 2020 - July 2020*


- Conducted risk assessments and compliance audits, ensuring financial and operational transparency.
- Leveraged data analytics for fraud detection and business process improvements.

Projects & Achievements


 **Biomedical Data Analysis:** Integrated biomedical sensor data with Python and SQL, optimizing device performance monitoring.


 **U.S. Fatality Map (Tableau):** Created an interactive public health visualization, analyzing traffic-related fatalities across the U.S.

 **Bioinformatics Research:** Conducted genomic data analysis using Biopython, extracting insights from NCBI datasets.

 **AWS CloudFormation for Healthcare Data:** Deployed secure cloud-based bioinformatics applications, improving biomedical data processing.

Professional Development & Involvement

 **Community Service at Diabetic Center:** Assisted patients in tracking glucose levels and managing diabetes through data-driven insights.

 **IT & Biomedical Informatics Workshops:** Active participant in seminars on bioinformatics, medical device security, and healthcare analytics.