

With a Doctor of Medicine degree and extensive software engineering experience, I bring a unique perspective to healthcare technology development. My medical background provides deep insights into healthcare workflows, clinical requirements, and patient needs, enabling me to build more effective bioinformatics platforms and healthcare solutions that truly serve the medical community.

EXPERIENCE

Senior Software Engineer · Pan.bio

Jun 2023 - Present

Boston, Massachusetts, United States · Hybrid · Full-time

Developing Pan.bio, an AI-powered genomics platform on GCP. The platform brings bioinformatics workflows, variant interpretation, and patient cohort data together, covering everything from raw sequencing data to clinical insight.

- Built AI engine for bioinformatics workflow generation and optimization
- Developed data pipeline orchestrator with Nextflow integration
- Created Python and R code execution engine behind the interactive notebooks
- Implemented scientific literature search engine
- Coordinated work across the AI, Bioinformatics, Data Engineering, and Cloud teams
- Specialized in Software Infrastructure and Nextflow

Clinical Bioinformatics Intern · Qatar Foundation

Mar 2023 - Apr 2023

Qatar Genome Programme (QGP), Qatar · Internship

Focused on developing skills in bioinformatics and genomic data analysis. Gained hands-on experience with genotyping assays, next-generation sequencing (NGS) technologies, and related file formats.

- Developed Nextflow pipeline for NGS secondary analysis including QC, alignment, variant calling, and annotation
- Created client for Varsome® API to annotate variants from 150+ databases
- Successfully annotated large batch of genotyping assay variants
- Worked with Fastq, BAM, VCF file formats

Mobile Application Developer · YahiaCodes

Dec 2019 - Present

Remote · Freelance

Building and publishing iOS and Android apps with Flutter and Firebase under the YahiaCodes name, for personal projects and freelance clients. My apps on the App Store and Google Play cover clinical tools, Islamic apps, education, and shopping. A few highlights:

- Published BiliCalc, a neonatal bilirubin reference tool for healthcare professionals based on NICE and AAP guidelines
- Built PriceDuel for comparing prices across stores and finding the best deals
- Created Ayah Mukhtara, a Quran app with verse notifications, tafsir, recitations, and search
- Made Mental Math, an endless runner style game for practicing times tables
- Developed Hafeez, an Azkar app with location aware reminders
- Released GPA Calculator, supporting all Jordanian universities and their grading systems

EDUCATION & CERTIFICATIONS

Doctor of Medicine (MD) · University of Jordan

2017 - 2023

Comprehensive medical education with focus on evidence-based practice and patient care. Graduated with excellent standing.

IELTS Academic · IELTS Official (Band 8.0)

Jun 2025

SKILLS

Flutter & Dart · Python & R · Docker · Kubernetes · FastAPI · PostgreSQL · MongoDB · Nextflow · Bioinformatics · Google Cloud Platform · Firebase · Software Infrastructure · NGS Technologies · REST API Integration · Mobile App Development · TypeScript · JavaScript · React · Node.js · Java · SQL · Git · LLMs