MUWANGA DAVID RICHARD

Medical Doctor ~ Full Stack Developer

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📍 Mbarara, Uganda   in muwangadavid

SUMMARY

Highly motivated and results-oriented self-taught Full-Stack Web Developer with a unique foundation in Medicine and Surgery (MBChB). Proven ability to rapidly acquire and apply complex technical knowledge, coupled with strong analytical and problem-solving skills honed through rigorous medical training. Passionate about building impactful web applications that bridge technology and healthcare, or contribute to any dynamic development team.

SKILLS

Languages: JavaScript (ES6+), TypeScript, HTML5, CSS3, SQL

Front-End: React, Next js, Redux/Context API, Tanstack Query, Responsive Design, RESTful APIs

Back-End: Node.js, Express.js, PostgreSQL, MongoDB, RESTful API Development, Memcached, PgBouncer, Prisma ORM

DevOps: Cloud Platforms (Digital Ocean), VPS configuration, CI/CD Github pipelines.

Others: Git, Docker, npm, Webpack, Babel, Testing (Jest), Nginx, Memcached, Pgbuncer, database replication

PROJECTS

React js
Node js
Express js

Social App for medics   app.medvase.com
A social app hosted on a VPS, built with react js frontend and backend built on node js and express js with postgresql database. Currently has few visitors but with notable traffic

EDUCATION

09/2024
- present

Self learning by doing   Internet and artificial intelligence
Working on my own project, full stack scaled social media application with users and activity. Improving it daily through research, trial and error and artificial intelligence prompt engineering

04/2023
- 08/2024

CS101: Introduction to Computer Science I   Saylor Academy
Understanding the fundamentals of computer science including history of computers, nomenclature in computer science and object oriented programming. I also got the fundamentals of Java

04/2023
- 06/2024

Professional Certificate   Online school Freecodecamp.org
Acquired foundational information in HTML, CSS JavaScript and react js its framework. I also learned the basics of SQL and NoSQL. I also learned API setup with Node.js and Express.js, authentication, database setup, and integration

08/2016
- 05/2021

Bachelors of Medicine and Bachelors of Surgery   Mbarara University of Science and Technology
I acquired clinical and leadership skills throughout the training process and also sharpened my problem-solving skills and ability to learn, unlearn, and relearn fast.

EXPERIENCE

09/2024
- present

Social Media App for medical practitioners   app.medvase.com
· A social app allowing collaboration among medical practitioners in Africa, hosted on a VPS and fully functional.
· Built with react js on the frontend and Node js and Express js on the backend with postgresql database.
· Memcached for cache layer to reduce database traffic, pgbouncer to manage postgres connection pool, logical replication and HAProxy to ensure high availability

04/2023
- present

Medical Officer   Pentagon Medical Centre
· Conducting comprehensive patient assessments, including medical history, physical examinations, and diagnostic tests working on over 80 patients per month of all age groups and gender.
· Formulating and implementing evidence-based treatment plans for patients with various medical conditions and surgical conditions.
· Collaborating with other healthcare departments like laboratory, imaging and pharmacy to provide comprehensive patient-centered care.

LANGUAGES

English - Proficient, **Luganda** - Proficient, **Runyankole** - Proficient, **Kiswahili** - Beginner