**David Muchoki Ndungu**

Nairobi, Nairobi 00100 ■ +254742732103 ■ ndungudavidmuchoki@gmail.com

**Professional Summary**

Knowledgeable and skilled software development professional offering advanced abilities in wide range of programming languages, including Dart, Typescript, Nodejs, Elixir, Javascript, TailwindCSS, CSS,C#, NoSQL language and SQL Language. Quickly understands requirements for new systems and creates robust code. Familiar with testing, debugging and correcting problems found in existing software systems.

**Work Experience**

**Assistant Software Developer**, 05/2024 to 09/2024

**Centre For International Programs (ICAP)**

Company Overview: ICAP is a global health organization affiliated with Colombia University, Dedicated to improving the health of families and communities worldwide

Contributed to the development of SHIELD (Surveillance Health Information Exchange and

Linkage Data) backend (API) using Elixir, PostgreSQL database, https://shield.health.go.ke/home

Built and launched the official website for Icap Kenya, enhancing its digital presence

Https://icapkenya.org/

Conducted data entry for Event-Based Surveillance (EBS) using REDCap, ensuring accurate and efficient data handling

Created a SHIELD demo using JavaScript, Nodejs, Ejs (Embedded JavaScript templates), PostgreSQL database, HTML5, Tailwind CSS ensuring a responsive and user-friendly design and secure

Created a forum API that allows a user to be able to post a blog, be able to sign in and get authenticated, has a bar chart which displays information

Built a helpdesk API allowing facility user to post an issue and is given a unique id and the data is saved in PostgreSQL database

**Software Developer Intern**, 10/2023 to 04/2024

**Centre For International Programs (ICAP)**

Conducted data entry of antimicrobial usage by patients in hospital using Redcap

Utilized Python programming language, Panda's python library, and MySQL database for data analysis tasks

Developed a health software demo using PHP, HTML, JavaScript, CSS, and MySQLdatabase

Website hosting using Oracle VM and NGINX on Ubuntu Operating System

Created data API demo (Application Programming Interfaces) containing customers and invoices

Documented Informatics department meetings including Surveillance and Health

Information Exchange and Linkage of Data (S.H.I.E.L.D) meeting and A.D.A.M(All Disease

Outbreak Module) meeting

Used docker for containerization, streamlining the deployment process and ensuring consistent environments across development, testing and production

**Attachment Student (Under the ICT department)**, 07/2023 to 09/2023

**Kenyatta University Teaching Referral and Research Hospital (KUTRRH)**

Company Overview: It is a National Referral Hospital with a 650-bed capacity

Conducted networking tasks such as crimping ethernet cables from servers to endpoints Completed data entry tasks using Excel and REDCAP for tracking antimicrobial usage, diseases, and cultures

Provided maintenance and support of hardware and software systems

Network administration and troubleshooting

Assisted in web development using WordPress, including customization of website pages

**Education**

**Diploma**: Computer Science, September 2021-November 2024

**ZETECH UNIVERSITY**

**Kenya Certificate of Secondary Education**: Jan 2020 **Molo Academy**

**Kenya Certificate of Primary Education**: Jan 2016

**Freehold Primary School**

**Skills**

* **Programming Languages**: Dart, Typescript, JavaScript, Elixir, C#, Python ,HTML5, CSS, Tailwind CSS
* **Frameworks and Libraries**: Nextjs, Flutter, Express.js, EJS, Ash framework, Phoenix framework, Blazor
* **Database Management**: PostgreSQL, MySQL, Cloud Firestore, MongoDB
* **Tools and Platforms**: Docker, NGINX, Oracle VM, Git, Firebase, Appwrite, Vercel, Firebase Messaging, Stripe and Mpesa, Intergration,SEO, Google Cloud Platform,Langchain JS,DataStax
* **Content Management Systems**: WordPress
* **Testing and Monitoring**: Jest, React Testing Library
* **Development Skills**: Mobile development, Data analysis using Python (Pandas), API development(RestFul and WebSocket API), Web development and design, and server management

**Certifications**

Certificate of service CCNA certificates

**Website, Portfolio And Profiles**

https://github.com/muchoki769

# References

Eric Ejimba, Data Engineer ICAP, ejimba@gmail.com, +254 725966650

Brian Kariuki, Software Developer at ICAP, bk2936@cumc.colombia.edu, +254 729948411

Doris Naitore, Country Representative at ICAP, dno2104@cumc.columbia.edu