David Muchoki Ndungu

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Professional Summary

Knowledgeable and skilled software development professional offering advanced abilities in wide range of programming languages, including C++, Dart, Typescript, Nodejs, Elixir, JavaScript, Tailwind CSS, CSS, 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), NEONDB-PostgreSQL database, HTML5, Tailwind CSS ensuring a responsive and user-friendly design and secure-https://shield-demo.onrender.com
- 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 2020-November 2023
ZETECH UNIVERSITY

Kenya Certificate of Secondary Education: 2020
Molo Academy

Kenya Certificate of Primary Education: 2016
Freehold Primary School

Skills

- **Programming Languages**: C++, Dart, Typescript, JavaScript, Elixir, Python , HTML5, CSS, Tailwind CSS

- **Frameworks and Libraries**: Crow, Nextjs, Flutter, Express.js, EJS, Ash framework, Phoenix framework
- **Database Management**: PostgreSQL, Appwrite, Cloud Firestore, MongoDB
- **Tools and Platforms**: Docker, NGINX, Oracle VM, Render, Git, Firebase, Neon DB, Appwrite, Vercel, Firebase Messaging, Stripe and Mpesa Integrations, 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

https://portfolio-three-mu-22.vercel.app/

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