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| VICTOR NZYOKA MUTUNGA  [Linkedin profile](http://www.linkedin.com/in/victor-mutunga-3b7692261) [GitHub Account](https://github.com/VictorNzyoka) | Kenya,  [nzyoka18@gmail.com](mailto:nzyoka18@gmail.com)  Javascript, Git, Python,PHP,  ReactJs,NodeJs,Laravel,  NexJs,Java,SQL,PostgeSQL,  MongoDB. |
| EXPERIENCEVirtual Mechatronics Laboratory -Backend Developer intern*September 2024 - January 202**5*  * Developed and optimized backend services for Virtual Mechatronics applications, contributing to a smoother user experience and efficient data management. * Integrated and managed database operations with MongoDB and PostgreSQL, ensuring data integrity and smooth data retrieval for various project modules. * Collaborated with cross-functional teams to design and implement RESTful APIs, improving connectivity between applications and databases. * Tested APIs extensively using Postman, identifying issues early in the development process and ensuring robust functionality before deployment. * Conducted code reviews and debugging sessions, significantly reducing system errors and enhancing application performance. * Utilized Node.js and Express to develop scalable backend systems, enhancing application response time by 30% and optimizing resource usage. * Documented project structures, workflows, and API specifications to streamline onboarding for future developers and maintain long-term project maintainability.  PROJECTS **Virtual Mechatronics Lab Website** **Purpose:** A platform for simulating mechatronics systems, offering interactive learning through virtual labs. **Role:** Fullstack Developer, responsible for backend design, simulation models, and frontend development. **Stack:** Node.js, Express, PostgreSQL, React, Tailwind CSS.  **Key Contributions:**   * **Developed interactive mechatronics simulations.** * **Built the backend with Node.js, Express,PostgreSQL.** * **Created a user-friendly frontend with React and Tailwind CSS.**   ****Impact**: An innovative platform for accessible, hands-on mechatronics learning.**  **[Project Link](https://github.com/Siemens-Vr/API)** | SKILLS Developed a Fullstack PERN Virtual Mechatronics Lab Website Implemented a secure and scalable backend using Node.js/Express, PostgreSQL, and integrated simulation models for interactive mechatronics learning. Designed a responsive frontend with React and Tailwind CSS to provide an engaging user experience.. [GitHub link](https://github.com/Siemens-Vr/API) Education **Dedan Kimathi University of Technology, Nyeri**,  October 2021 - December 2024 Bachelor of Science in Information Technology.  Comprehensive training in **information systems, database management, IT project management, algorithms, quality assurance,** and **software engineering principles.**  Gained a strong foundation in **information technology fundamentals**, including networking, cybersecurity, data structures, software testing, and development methodologies, with a focus on **IT-based engineering practices.** |