

MORURI KELVIN

Backend Engineer

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17607-00100-Nairobi, Kenya

SUMMARY

A dynamic and detail-oriented Web Developer with a solid foundation in JavaScript, React, and MySQL, committed to designing and implementing user-centric applications that elevate the user experience and drive business growth. Skilled in collaborating with cross-functional teams to deliver high-quality, scalable, and maintainable software solutions. Passionate about staying up-to-date with the latest industry trends and best practices to produce innovative web applications that meet client requirements and exceed expectations. Proven ability to create efficient and effective code that supports both performance and user engagement.

EDUCATION

Catholic University of Eastern Africa

Bachelor of Science in Computer Science
Graduated: October 2024

Kabarak University

Diploma in Computer Science
Graduated: Decembar 2021

SKILLS

- Programming Languages:**
JavaScript, Node.js, Python, C++, Java
- Web Development:**
HTML, CSS, React.js, Express.js, JavaScript
- Database Management:**
MySQL, MongoDB (SQL/NoSQL)
- UI/Ux Design:**
Canva, Figma Wireframing & Prototyping,
User Research & Testing, Responsive & Accessible Design
Design Systems & Style Guides
- Version Control:**
Git, GitHub
- Cloud Computing:**
AWS
- Frameworks & Libraries:**
React.js, Node.js
- API Development & Integration:**
RESTful APIs, Third-Party API Integration
- Security:**
Authentication, Authorization, Secure Coding Practices
- Problem Solving:**
Strong analytical and debugging skills
- Project Management:**
Agile methodologies, Jira
- Tools & Platforms:**
Visual Studio Code, Postman, GitHub, Docker

PROFESSIONAL EXPERIENCE

Software Developer Intern DewCIS Solutions Ltd | Nairobi, Kenya

Jul 2024 – Oct 2024

- Backend Development:** Built and optimized server-side applications using Node.js and Express.js, aligning with DewCIS's focus on enterprise software solutions like Baraza HCM and Baraza Business.
- API Integrations:** Integrated RESTful APIs and third-party services to enhance system interoperability, ensuring seamless data exchange between platforms.
- Database Management:** Designed and maintained MySQL and MongoDB (SQL/NoSQL) databases, improving data retrieval efficiency and ensuring system reliability for enterprise applications.
- Security:** Implemented authentication and authorization best practices, safeguarding sensitive data in accordance with industry security standards.
- Version Control:** Leveraged Git and GitHub for version control, ensuring structured code management and smooth collaboration with development teams.

Software Development Internship Scalum Technologies | Nairobi, Kenya

Jan 2024 – Apr 2024

- Front-end Development:** Developed and maintained responsive web applications using React.js, HTML, CSS, and JavaScript.
- API Integrations:** Collaborated with backend developers to integrate RESTful APIs, ensuring smooth data exchange between the front end and back end.
- UI/Ux Design:** Implemented responsive and accessible design principles to enhance usability for diverse audiences. Collaborated with developers to ensure accurate translation of designs into functional web application
- Version Control** Gained hands-on experience with Git and GitHub for version control and team collaboration.
- Security** Worked on implementing authentication and authorization mechanisms to enhance security.

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<https://github.com/kelvinMORURI>

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PROFESSIONAL EXPERIENCE

Student Web Development Assistant

The Technical University of Kenya | Nairobi, Kenya

Oct 2019 – Dec 2020

- **Front-End Development:** Designed and implemented responsive web interfaces using HTML, CSS, and JavaScript, ensuring an interactive user experience.
- **React.js:** Developed reusable components and improved state management, deepening my understanding of front-end architecture.
- **API Integration:** Integrated RESTful APIs for dynamic content updates, reinforcing my knowledge of client-server communication.
- **Backend Exposure:** Collaborated with backend developers, gaining insight into database management and API structures, which fueled my transition to backend development.
- **UI/Ux Design:** Provided UI/UX support for students participating in the 2020 Robotics Competition, assisting in the development of web interfaces for controlling robotic movements. The TUK Kenya team secured third place, while the winning team received a MiRo-E robot for their innovative space robot design.

Network Technician Intern

Next Technology Co LTD | Nairobi, Kenya

Jan 2019 – Apr 2019

- Learned server setups, network configuration, and infrastructure management, gaining insight into how backend systems support web applications.
- Understood network reliability, scalability, and performance optimization, essential for designing efficient backend services.
- Developed an appreciation for backend architecture and database management, influencing my shift toward backend engineering.

PROJECTS & PERSONAL WORK

Olympus Exam – Scalable Online Examination System

As part of a case study at the Catholic University of Eastern Africa (CUEA), this project focused on architecting and implementing scalable backend systems. It involved the development of a secure online examination platform, leveraging industry best practices in RESTful API design, AWS cloud deployment, and robust data management strategies. Additionally, Docker was utilized for containerization, ensuring seamless portability across environments. This project significantly enhanced my proficiency in backend architecture, cloud computing, and containerized deployment workflows.

Key Contributions

- **Frontend Development:** Designed an intuitive and responsive React.js interface, ensuring a seamless user experience across devices.
- **Backend Engineering:** Developed the Node.js and Express.js backend to manage user authentication, exam administration, and result processing.
- **API Development & Integration:** Built RESTful APIs for efficient communication between the frontend and backend services.
- **Database Management:** Implemented MySQL to store structured exam data, optimizing retrieval and ensuring data integrity.
- **Cloud Deployment:** Deployed the system on AWS, utilizing cloud infrastructure to enhance scalability and performance.
- **Security Implementation:** Integrated robust authentication and authorization protocols to safeguard exam data and user credentials.
- **Containerization & Portability:** Leveraged Docker for containerizing the application, ensuring seamless deployment and portability across development, staging, and production environments.
- **Version Control & Collaboration:** Used Git and GitHub for version control and collaboration, enabling efficient tracking of changes and team coordination.

CERTIFICATIONS

- FreeCodeCamp Web Design Certification
- Angela Yu Web Development Certification

REFEREE

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