

# John Kassah

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**Address:** K19, 00233 Tema, Ghana

**Phone:** +233558845533/ +233505764298

**Email:** [johnkassah23@gmail.com](mailto:johnkassah23@gmail.com)

**LinkedIn:** [View Profile](#)

**Portfolio**

**GitHub**

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## PROFILE

With a background in mechanical engineering, I have transitioned into web development, combining analytical skills with a passion for creating seamless digital experiences. Proficient in HTML, CSS, and JavaScript, I develop responsive and user-friendly interfaces that prioritize engagement. My growth mindset led to a notable achievement: building the backend of an e-commerce platform while focusing on performance and user satisfaction. I am motivated to build innovative web solutions that raise standards and offer lasting value.

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## WORK EXPERIENCE

### Backend Developer (Freelance)

*Rouje Naturel Shea Ecommerce Platform – 02/2025 – Present*

- Developed and maintained backend systems for an e-commerce website, ensuring robust functionality and performance.
- Optimized server-side processes with MongoDB indexes to improve site speed and user experience, applying analytical skills from engineering.
- Collaborated with frontend developers to integrate APIs, delivering a seamless and user-centric platform.

### Operations Assistant

*Desfasmens Solutions, Tema, Ghana – 09/2023 – 01/2025*

- Streamlined inventory planning processes, enhancing resource allocation and operational efficiency.
- Coordinated project planning and task assignments, ensuring timely completion through effective monitoring.

- Analyzed operational workflows, leveraging data-driven insights to boost team productivity and project outcomes.

### **Mechanical Site Inspector**

***Sunon Asogli Power Ghana LTD, Tema, Ghana – 02/2021 – 08/2023***

- Designed and implemented an inspection routine that increased efficiency by streamlining equipment safety checks.
- Analyzed operational data to identify and report safety hazards, showcasing attention to detail and proactive problem-solving.
- Tracked and documented equipment performance metrics, ensuring compliance with operational standards.

### ***Education Gap (Mechanical Engineering Studies)***

***Tema, Ghana – 09/2017 – 01/2021***

- *Full-time student pursuing a degree in Mechanical Engineering.*

### **Science and Math Tutor**

***Peniel Victory School, Tema, Ghana – 05/2017 – 08/2017***

- Developed engaging exercises and exams, enhancing student comprehension through clear communication and tailored content.
- Designed creative science experiments with limited resources, fostering innovative thinking and adaptability.
- Improved student performance by delivering personalized feedback, achieving consistent academic progress across the class.

### **Laboratory Assistant**

***Cal Ghana, Tema, Ghana – 06/2016 – 04/2017***

- Conducted precise pH and sugar tests on samples, ensuring product quality through rigorous data analysis.
- Monitored and recorded equipment performance metrics, maintaining operational accuracy within strict tolerances.
- Inspected production line outputs, applying meticulous attention to detail to uphold quality standards.

***Sunon Asogli Power Ghana LTD – 01/02/2021 – 01/08/2023***

Tema, Ghana

- Ensured the operational safety of equipment before, during, and after runtime.
- Designed and implemented an inspection routine that maximized inspection efficiency.
- Identified potential safety hazards and reported them to the project Shift Charge.
- Tracked equipment operational changes and reported any significant changes to the Shift Charge.

**Science and Math Tutor**

***Peniel Victory School – 01/05/2017 – 01/08/2017***

Tema, Ghana

- Prepared exercises and examinations to assess student understanding.
- Prepared report cards with suggestions to improve student performance for the next academic semester.
- Performed creative Science experiments with scarce resources to boost student interest and understanding.
- Brought all students to an equal and sufficient level of understanding by the end of the semester.

**Laboratory Assistant**

***Cal Ghana – 01/06/2016 – 01/04/2017***

Tema, Ghana

- Carried out pH tests on the facility water.
- Inspected line products to ensure that they met quality standards.
- Carried out sugar tests on paste samples to ensure they were standard.
- Recorded operation values of working equipment and ensured they operated within an allowable tolerance.

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**EDUCATION**

- **Bachelor's in Mechanical Engineering |BTech**

***Koforidua Technical University – 01/10/2020 – 01/11/2022***

Koforidua, Ghana

- **Higher National Diploma(HND) in Mechanical Engineering**

*Koforidua Technical University* – 01/09/2017 – 01/09/2020

Koforidua, Ghana

- \*During this period, I was working as a laboratory assistant at Cal Ghana.  
01/06/2016 – 01/04/2017

- **Pure Science | WASSCE Certificate**

*Methodist Day Senior High School* – 01/05/2013 – 01/05/2016

Tema, Ghana

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## SKILLS

### Frontend

- HTML, CSS, JavaScript, React, Axios
- Responsive web design

### Backend

- Node.js, Express.js
- MongoDB, API integration

### Tools

- Git, GitHub
- VS Code
- SolidWorks
- Microsoft Office Suite
- Adobe Premiere Pro

### Soft Skills

- Report writing
- Communication and Public Speaking
- Leadership
- Resource management
- Proactivity

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## PROJECTS

- Led a team named PHLO in the first Vice Chancellors Innovation Challenge
- Investigation of the wear rate of milling blades and levels of heavy metal deposition on milled food samples
- Conducted a review of processing and characterization of coconut shell waste composite with epoxy base.