**Kingsley Egharevba Jerome ¦ Hydrogeologist**

**Location: Abuja, Nigeria, willing to relocate**

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**Github: https://github.com/jeromekingsley**

***Professional Profile:***

Skilled web developer with expertise in HTML, CSS, JavaScript, MySQL, and PHP, capable of creating dynamic and responsive websites, managing databases, and developing user-friendly applications to support project management and educational initiatives. Results-oriented Hydrogeologist with over 8 years of experience in conducting comprehensive hydrogeological assessments and managing groundwater projects. Proven expertise in designing and implementing effective groundwater monitoring programs, assessing aquifer characteristics, and providing sustainable water resource management solutions. Adept at utilizing advanced hydrogeological modeling software and conducting data analysis to inform decision-making processes. Additionally, experienced in teaching geography, biology, computer science, and social studies, bringing a multidisciplinary approach to education and project management.

***Skills in Technical Operations:***

* **Front-End Development**: Proficient in HTML, CSS, and JavaScript to create dynamic, responsive, and visually appealing websites.
* **Back-End Development**: Skilled in PHP for server-side scripting and MySQL for database management.
* **Database Management**: Designing, implementing, and optimizing MySQL databases to handle large datasets efficiently.
* **Version Control**: Experience with Git for source code management and collaboration.
* **Full-Stack Development**: Combining front-end and back-end skills to build complete web applications.
* **Testing and Debugging**: Adept at troubleshooting and ensuring cross-browser compatibility and performance optimization.
* **API Integration**: Experienced in integrating third-party APIs to extend website functionality.
* Groundwater Modeling using MODFLOW software
* Use of MATLAB for statistical analysis of groundwater or environmental data.
* ArcGIS for the presentation and / or analysis of groundwater-related data and information.
* Handling Mc-Ohm and SARIS Resistivity Meters for conducting Vertical Electrical Resistivity Soundings.
* Use of relevant equipments (e.g. polarized microscope. Simple microscope, sieves etc) for petrographic analysis.
* Collection of water and soil samples to test for certain properties, such as the pH or pollution levels, analyze data on the environmental impacts of pollution, erosion, drought, and other problems.
* Use computer models to forecast future water supplies, the spread of pollution, floods, and other events, prepare written reports and presentations of their findings.
* Measure the properties of bodies of water, such as volume and stream flow, evaluate the feasibility of water-related projects, such as hydroelectric power plants, irrigation systems, and wastewater treatment facilities.
* Knowledge of mobile rig system for borehole drilling processes.
* Experienced in controlling, inspecting and supervising at field and office level as a team leader. Experienced in work with multi-disciplinary team comprising of both researchers and professionals from all the major disciplines such as geologists, groundwater experts, environmentalists, sociologists, GIS professionals, and database specialists.
* Established good relation and networking with all relevant agencies at national and local Level.
* Good communication skills
* Ability to make good decision in difficult situation.

**Educational and Teaching Skills:**

 **Geographic Information Systems (GIS)**

 **Environmental Studies**

 **Curriculum Development**

 **Project-based Learning**

 **Classroom Management**

 **Assessment and Evaluation**

 **Fieldwork Planning and Execution**

 **Differentiated Instruction**

 **Microsoft Office Suite, Google Classroom, and Digital Learning Tools**

***Career Summary:***

* **Year: October 2021 to present**

**Organization:** Freelance Web Developer.

**Position held:** Freelancer

**Location:** Remote

**Responsibilities:**

1. Website Development:
   * Design, build, and maintain websites for clients based on project requirements.
   * Develop responsive, user-friendly websites and applications.
   * Write clean, efficent, and maintainable code in HTML, CSS, JavaScript, and other relevant technologies.
   * Ensure websites are optimized for speed, SEO, and mobile responsiveness.
2. Client Consultation:
   * Communicate with clients to understand their needs, goals, and desired website functionality.
   * Offer recommendations on web design, layout, features, and technologies to suit business goals.
   * Provide guidance on user experience (UX) design and best practices.
3. Front-End and Back-End Development:
   * Work on both the front-end (user-facing) and back-end (server-side) components of websites.
   * Implement or integrate databases, APIs, and third-party tools.
   * Build e-commerce platforms, content management systems (CMS), and other specialized web applications.
4. Testing and Debugging:
   * Test website functionality, troubleshoot issues, and resolve bugs or glitches.
   * Ensure cross-browser compatibility and fix any UI/UX issues.
   * Implement website security protocols to ensure data protection.
5. Maintenance and Updates:
   * Regularly update and maintain websites to ensure they remain secure and functional.
   * Manage updates to content, features, and design elements based on client feedback or evolving trends.
6. Project Management:
   * Manage timelines, budgets, and project scopes for freelance web development projects.
   * Coordinate with other freelancers or subcontractors when necessary, such as graphic designers, content writers, or SEO specialists.
   * Use project management tools (e.g., Trello, Asana, Jira) to track progress and communicate with clients.
7. Collaboration and Communication:
   * Stay in regular contact with clients to discuss updates, revisions, and final delivery.
   * Work remotely with clients, project managers, or teams across various industries and time zones.
   * Respond to client inquiries promptly and maintain a professional, positive working relationship.
8. Documentation:
   * Provide detailed documentation for the websites or applications created, explaining how to update or maintain them.
   * Document any custom features or code changes for future reference.
9. SEO and Performance Optimization:
   * Implement best practices for search engine optimization (SEO).
   * Optimize websites for page load speeds and other performance metrics.
   * Configure site analytics tools (e.g., Google Analytics) to track and report site performance.

* **Year: October 2017 to 2023**

**Organization:** Vineyard Geological Company.

**Position held:** Geologist (Full Time)

**Location:** Minna, Niger State, Nigeria.

***Activities Performed:***

* + Geophysical survey using electrical resistivity method to
  + determine soil resistance.
  + Groundwater drilling using a mobile rig,
  + Development of groundwater.
  + Rural water development and sanitization.
  + Geological mapping and report writing.
  + Performed site work while adhering to health and safety protocols ranging from corporate policies to client-specific programs.
  + Compiled hydrology, geology, and water quality information from many sources and in many formats to create calibrated flow and transport simulations.
  + Conducted a study on the effects of pumping a mine production well on local domestic water wells around a mining site in Galadima Kogo.
  + Provided forward-moving investigative options to clients.
  + Prepared cost estimates and proposals for clients.

* **Year: October 2014 to October 2017**

**Project: ASSESSMENT OF THE IMPACT OF GOLD MINING ON GROUNDWATER IN GALADIMA KOGO, NORTH CENTRAL NIGERIA**

**Organization:** DEPARTMENT OF GEOLOGY, FEDERAL UNIVERSITY OF TECHNOLOGY MINNA.

**Position held:** Hydrogeologist (Master’s Student) RESEARCH PROJECT.

**Location:** Minna, Niger State, Nigeria.

***Activities Performed:***

* + Planning the Assessment of impact of gold mining on groundwater in Galadima Kogo, North Central, Nigeria.
  + Analysis and evaluation the investigatory boreholes drilling data, logging and pumping test for present scenario. Evaluating the soil and rock condition of sub surface for future development work.
  + Study of Hydro-geological and Mineralogical condition of mineable area. Instant test of pH inrush water in underground. Temperature monitoring and Temperature graph plotting for further research work.
  + Geological survey for the Open Pit mine development and planning for the development work for future development workings in Open Pit.
  + Report writing.
* **Year: October 2013 to JULY 2014**

**Organization:** Faith Immaculate College

**Position held:** Geography Teacher

**Location:** Edo State, Nigeria.

***Description:***

 Develop and deliver comprehensive lesson plans in physical and human geography for students in [Grade Levels].

 Prepare students for exams by providing rigorous and personalized instruction.

 Organize field trips to local geographical landmarks, enhancing student understanding of the subject through real-world experience.

 Collaborate with fellow teachers to create interdisciplinary projects, integrating geography with history, social studies, and biology.

 Mentor and guide students in research projects, geography competitions, and extracurricular activities.

* **Year: October 2011 to November 2012**

**Project: GEOPHYSICAL SURVEY AND BOREHOLE DRILLING (RUWATSAN)**

**Organization:** Rural Water Supply and Sanitation Agency (Under National Youth Service Corps 2011 to 2012)

**Position held:** Intern Geologist (Full Time)

**Location:** Minna, Niger State, Nigeria.

***Activities Performed:***

* + Collected and reviewed existing data from all relevant sources to make a preliminary assessment and to identify the data gaps.
  + Completed Vertical Electric Soundings (VES) covering entire area and delineated a gross subsurface lithologic and stratigraphic sequence to delineate the aquifer systems of the project area.
  + Selected sites, supervised test borings up to a depth of 800 feet, constructed borelogs from the collected sediment samples, designed test wells and piezometers, supervised installation of Piezometers at different depths and different locations of the project area.
  + Monitoring groundwater levels at all Piezometers to determine the hydraulic characteristics of the aquifers.
  + Collected water samples from all wells, analyzed samples for major ions and trace elements and interpretations are being done using the analyzed results to relate the occurrence of heavy metals with geological materials and other chemical parameters.
  + Measured some water parameters (temperature, EC, pH, TDS, Turbidity) on site using field equipments in all above mentioned wells.
  + Collected borelogs from completed and ongoing projects and using all the logs in constructing 3D model of subsurface system to delineate the aquifer geometry of the project area.
  + Contributed in report writing.

***Professional Membership***

* Nigeria Mining and Geosciences society (NMGS)
* Nigerian Association of Hydrogeologists (NAH)

***Education and Certifications:***

|  |  |  |
| --- | --- | --- |
| ***SCHOOLS ATTENTED*** | ***QUALIFICATION*** | ***DATE*** |
| * Federal University of Technology, Minna | Masters Hydrogeology  (Mtech) | **2017** |
| * PMHub Nigeria Ltd. | Project Management Professional(PMP) | **2013** |
| * PMHub Nigeria Ltd. | Health Safety and Environment (HSE) | **2013** |
| * University of Benin, Edo State | B.Sc Geology | **2006-2011** |
| * Perfect Computer Institute, Kaduna | Computer Diploma Certificate | ***2005*** |
| * Airforce Military School, Jos.   Senior Sec. School leaving certificate | WAEC/NECO | **1998-2004** |
| * Penny Private School, Orile Iganmu Lagos.   First School Leaving Certificate. | Basic School leaving certificate | **1993-1997** |

***Additional Information:***

* web development courses in Udemy, Coursera
* Hydrogeological Softwares: MODFLOW with ModelMuse, Visual MODFLOW Flex 8.0
* GIS software: ArcGIS
* Statistical and Data Analysis software: MatLab

**Publications:**

* Conducted Groundwater Quality Assessment for Irrigation Purposes: A case study of Minna, Niger State, Northcentral Nigeria published in J. Chem Soc. Nigeria, Vol. 44, No. 4, pp 633 -640 [2019]
* Developed research project to analize Hydrogeochemical Evaluation of Surface and Groundwater Quality around Galadima Koko Mining sites, Niger State, North-central Nigeria published : <https://www.researchgate.net/publication/325694411>
* Researched the Assessment of the Impact of Gold Mining on Groundwater in Galadima Kogo, Northcentral, Nigeria.

**Others:** Driver’s License (B Cars category)

**Hobbies and Interests:** Chess, Photography, travel

**Referees:** Available on requests