Terms of Reference (ToR)

Position: Full Stack Developer (React & Python/Django)

Required no: 1

About O.L.E. Nepal

Open Learning Exchange (OLE) Nepal is a social benefit organization dedicated to enhancing teaching-learning in schools through the integration of technology and to provide uniform access to quality educational materials across different geographic areas and socio-economic strata.

O.L.E. Nepal develops and distributes free educational content, trains teachers to integrate technology in classrooms, implements technology interventions in rural schools, and helps build local capacity in technology and education.

We are a team of social workers, educators, designers, developers, and individuals dedicated to leveraging technology to improve the quality of education in public schools across Nepal. To learn more about our team, visit: https://olenepal.org/our-team/ .

About the Position

The Software Developer will be an integral to developing user-centric designs for the HRK, E-pustakalaya and Learning platform apps, employing a blend of functional components..

This role involves collaborating closely with developers, UI/UX and multimedia designers, as well as content experts to develop educational tools, ensuring they are accessible, engaging, and effective for diverse learners.

The position requires a dynamic individual who is adept at bringing design ideas to life, documenting and maintaining software functionality, with a keen willingness to learn and adapt within a multidisciplinary team.

साझा शिक्षा ई-पाटी नेपाल
Open Learning Exchange (OLE) Nepal

जि.प्र.का.काठमाडौं दर्ता न.२९८/०६४/०६५
स.क.प.आ.न.२३६७१
पान न.३०२८३३८६९
दर्ता ठेगाना: व.न ११, काठमाडौं

Responsibilities:

- Execute full lifecycle software development, including verification plans and quality assurance procedures
- Implementation of user interfaces with a focus on usability, performance, and accessibility.
- Study, develop and debug web applications in order to improve performance and to enforce standard coding practices
- Utilize the existing REST API for communication between the frontend and backend.
- Debug and maintain the Django codebase, ensuring proper functionality and efficient data exchange.
- Analyze and debug existing web applications, including both frontend and backend components.
- Write well designed, testable, efficient code.
- Document and maintain software functionality.
- Collaborate closely with product managers, designers, and other teams to translate requirements into technical specifications.
- Troubleshoot and debug complex issues to ensure smooth performance of web applications across different browsers and devices.
- Participate in code reviews, architectural discussions, and sprint planning meetings to ensure high code quality and adherence to coding standards.
- Coordinate with the System Admin or DevOps team for both online and offline version releases.

Education:

- Bachelor's degree in Computer Science and Information Technology or equivalent or relevant proven experience in fullstack development.

Requirements:

- Experience in REST API provided by Django Rest Framework (DRF).

साझा शिक्षा ई-पाटी नेपाल

Open Learning Exchange (OLE) Nepal

जि.प्र.का.काठमाडौं दर्ता न.२९८/०६४/०६५

स.क.प.आ.न.२३६७१

पान न.३०२८३३८६९

दर्ता ठेगाना: व.न ११, काठमाडौं

- Experience in Javascript and JavaScript Framework(React, Next JS, Jquery), Redux, Web markup language(HTML/HTML5, XML) and CSS.
- Debug and maintain the Django codebase, ensuring proper functionality and efficient data exchange.
- Understanding of database systems, particularly PostgreSQL or any other supported by Django.
- Proven more than one year of relevant experience in JavaScript, React, Next JS, python frameworks(django/flask) Technology.
- Experience in working with using Responsive Web Design frameworks like Bootstrap , Tailwind , Material UI.
- Experience in working with cross-browser compatibility issues and ways to work around them.
- Experience with modern Front-End development tools (NPM, WebPack, Babel, etc)
- Good experience in code refactoring and maintaining well documentation..
- Experience with Docker for containerization.
- Proficient understanding of code versioning tools such as Git, Mercurial, or SVN.
- Developed software in SCRUM environment using Agile methodologies and involved in SDLC process.
- Willing to travel to the program schools in the remote parts of Nepal.