Full Stack Developer

Job Description

Job Location: Kuala Lumpur, Malaysia

Duration: Full-time position.

Start Date: ASAP

Energy Action Partners is an international social enterprise working to strengthen rural communities through access to sustainable energy. We partner with community-based organizations and minigrid developers to collaboratively design and deploy renewable energy minigrids - village-based power systems that provide electricity for homes and local businesses.

We have developed a unique software tool called the Minigrid Game (http://www.theminigridgame.org) that community members and minigrid developers use to jointly develop plans and management strategies for a financially viable and socially acceptable village minigrids. The Game is played as a multi-user, networked, cooperative, simulation game deployed on tablets in field-based planning workshops.

Our software tool was initially developed by an external contractor and we are now seeking a full-time Full Stack Developer to join our team of energy and community development specialists in Kuala Lumpur, Malaysia to build our in-house software development capability. The individual will have broad responsibilities, including to plan and execute a rebuild of the current software version. The individual will start as a one-person software development team with the expectation of building and managing a team of other developers within six months.

The Full Stack Developer will report to the Regional Director for Southeast Asia and will work closely with our community programs team that utilizes the Minigrid Game in energy planning workshops for rural and remote communities.

Responsibilities

- Design and develop server-based web application from high-level architecture and network infrastructure to low-level creation of site layout, user experience, database schema, data structure, work-flow, graphics, unit testing, an end to end integration testing, etc.
- Design, write, and test code for a Javascript-based frontend system and Node/Python-based backend system.
- Create and manage full-stack documentation, including data models (i.e. ERD and DFD).
- Enable remote deployment of the software (e.g. using containers).
- Optimize and test code for speed and scalability.
- Ensure best practices are employed throughout the process.

Required Qualifications

- 3+ years of relevant work experience in full stack development.
- Background and familiarity with networks and/or game development
- Proficient understanding of JavaScript and Python
- Proficient in frontend Javascript frameworks (Angular, React, ...)
- Ability to collaborate effectively with project stakeholders outside of Dev. group, especially with Product Management on feature requirements and project schedules.
- Ability to provide effective technical leadership and oversight to development team on a project, ensuring that software is developed in adherence to established architecture, design, quality standards, as well as delivery schedule
- Excellent written and oral communication skills, with fluency in English required.
- Highly organized with strong attention to detail.

**Desired Qualifications**
- Good understanding of server-side CSS pre-processors, such as LESS and SASS.
- Experience troubleshooting and resolving cross-browser compatibility issues.
- Basic knowledge of image authoring tools (i.e. Gimp or Photoshop).
- Experience deploying applications both locally and through cloud services (i.e. AWS).

**Contact**
For more information, please contact recruit@enactpartners.org.