



Position title: Backend developer

Organization: ASU SolarSPELL (Solar Powered Educational Learning Library)

Location: Tempe Campus - Payne Hall - Remote

Type of internship: non-paid; part-time

Application deadline: March 21st

Start date: June 1st

Description:

SolarSPELL is seeking a Back-end Developer intern to support our library backend systems. Are you a passionate backend developer student with a knack for changing lives? Then we may have the learning position for you! The Back-end Developer will improve and continue developing SolarSPELL's current API applications. They will also maintain our digital library management system on our offline server, using their understanding of Linux programming languages and tools. A mandatory SolarSPELL on-boarding workshop will take place at the start of the internship.

Essential Duties:

- Collaborate with team members to develop APIs as needed
- Maintain, test, and debug our backend systems
- Publish and apply regular updates to the digital library management system running on the Linux offline server
- Improve search algorithms and data retrieval methods

Minimum Qualifications:

- Academic focus in computer engineering, computer science, or a related field.
- 1+ years of professional experience in backend development.
- Strong proficiency in developing web services and API using Python and PHP. Django is a plus.
- Knowledge with ORM (Object Relational Mapping) frameworks and RESTful principles.

- Experience in managing Linux systems and administering Apache and Nginx servers
- Understanding of the web development cycle and programming techniques and tools
- Effective verbal and written communication skills.
- Thrive in a team environment and work well with others.

SolarSPELL is an offline digital library designed to bring educational content to resource-constrained locations that may lack electricity, Internet connectivity, and/or traditional libraries. The SolarSPELL library emits an offline Wi-Fi hotspot, to which any Wi-Fi capable device (smartphones, tablets, laptops) can connect and browse the expansive content for free.

More information on SolarSPELL can be found here: <http://solarspell.org>

This position offers an exciting opportunity to contribute to improving the quality of educational information available to students and teachers around the world, whose schools may lack Internet connectivity, electricity, and/or traditional libraries. Your contributions will be brought to the field and used by teachers and students, potentially within months of your internship!

Ideal candidates will be detail-oriented and self-starters. We are looking for candidates that have availability through Summer 2021. Successful students have the opportunity to continue through the Fall 2021 semester and beyond.

To apply: Please send a resume and cover letter to Courtney Finkbeiner at courtney.finkbeiner@asu.edu. Your files should be in PDF format and follow the naming convention of LastName_FirstName_CV (resume) or LastName_FirstName_CL (cover letter).