

Software Development Volunteer

AMOS Health & Hope | Managua, Nicaragua | 2016

Do you want to play a role in reducing Nicaraguan health inequity? Do you want to save mothers and babies from preventable diseases? Would you be excited about founding the technical groundwork for a growing non-profit? Do you find yourself working best in an independent, self-driven environment? If yes, then AMOS is the spot for you; working as a software designer here is all of this and more.

What you'll be doing...

- Contributing to the foundation of our expanding technical infrastructure.
- Constructing database solutions, empowering our access to and analysis of large data sets.
- Designing public health applications for a highly diverse user pool, from the ground up.
- Learning and utilizing the programs we license, such as FileMaker and OpenEMR.
- Educating AMOS staff about your work, and about general development principles.

Who you are...

- **Service-Minded.** You want your work to promote something more meaningful than a simple pay check. You prioritize the welfare of others, and aspire to create products that contribute to their well-being, both directly and indirectly.
- **Independent.** You have the ability to self-evaluate the correctness, utility, and progress of your work. You will be responsible for building up a data infrastructure nearly from scratch.
- **Self-motivated.** You are uncompromisingly oriented towards development best practices. You feel comfortable setting personal goals and benchmarks during your projects.
- **Flexible.** You expect to be pushed out of your “developer comfort zone”, knowing that challenge promotes your growth as a person and engineer. You can deal with priorities which may change day-to-day. You are confident in your ability to learn and use different tools.
- **Context-Aware.** You consistently question your own assumptions about others, knowing that cultural differences will influence your design decisions.
- **Technical.** You have a firm grasp on at least one OO programming language such as Java or C++, and experience with at least one database query language, like SQL, Datalog or XQuery. You know how to incorporate common design patterns, and you have a strong understanding of system design and specification authoring.
- **Articulate.** You understand that good documentation is your top priority. As AMOS' sole developer, you are confident in your ability to convey your knowledge and project details to non-technical personnel. You know that, if called upon, you could educate others about the basics of computer science.

As AMOS grows, our technical needs grow as well. By partnering with us, you can make a very real difference in our efficiency and capabilities. Our aim is to decrease health inequity and promote social justice. We value interpersonal relationships, an outreach mind set, simplicity, transparency, and above all else, making a positive impact in the world!