SEBASTIAN SILVA   SEBASTIAN@FUENTELIBRE.ORG

SOFTWARE ARTISAN

Holistic thinker with experience in the execution of projects involving the design, implementation, and sustainability of systems interweaving humans and technology, exploring the limits of what is possible, and making it a reality for everyone.

PROFILE

- Experienced software developer with the ability to bridge the technical and humanistic communities.

OTHER RELEVANT EXPERTISE

- Have spent long periods off grid in communities in the Amazon region, working with my hands and learning from traditional culture leaders.
- Experience giving workshops to children and adults.
- Assessment of requirements, drafting of specifications, technical evaluation.

WORK EXPERIENCE

Systems Administrator. PublicLab.Org, USA. Sep 2015 – *to date*.
- I am responsible for maintaining platforms and servers related to citizen environmental science and monitoring.

Developer. Arbio Perú, Madre de Dios, Jul 2017, Jan-Mar 2018.
- Developed a Progressive Web App for surveying endangered trees
- Developed a tree showcase and adoption platform

Developer. Arbio Perú, Madre de Dios, Sep-Oct 2015.
- Developed a system for projecting locations for an agroforestry plantation of N crops distributed according to set of rules / parameters.

Lead Developer: "Peru Learns English". Ministry of Education, Peru. Dec 2014 – Feb 2015.
- Delivered spaced repetition flashcard vocabulary learning software, including 3 embedded games and selected video content, under the GNU GPLv3 license.

Workshop Facilitator: "Artisan Videogame Programming in Python". OLPC / ANSPE / Town Hall of Chia, Colombia, 2014
- Taught Python to children 10-12. Delivered 5 complete games.
- Developed and published sprite based python learning environment.

Mentor "Google Code In 2013". Sugar Labs Project

Co-Mentor "Google Summer of Code 2012". Sugar Labs Project

Technical Leader / Buildmaster. Ministry of Education, Peru. 2012 – 2013.
- "*Hexoquinasa*" Localised Updated Operating System Images for the XO laptop.
- Default search engine set to *Ecosia*, a project to plant trees around the world. Every search performed by children in public schools contributed to **plant more than 75.000 trees** from 2014 to 2016 (and still going).

Oversight Board Member. Sugar Labs Project, Software Freedom Conservancy (SFC), USA – 2010-2012.

Technical Consultant. IADB Inter-American Development Bank – 2010, 2011 y 2012.
- Delivered monitoring software for the XO laptop
- Delivered offline surveying software for the XO laptop

Sugar Activity Specialist. Activity Central LLC, USA – 2011 .
- Converted many Sugar activities to new toolbar design
- Developed first prototypes of Web-technologies-based Sugar activities.

Co-founder & "Hacker Master Learner". Research & Development (R&D) Team "SomosAzucar.Org", Perú – 2009 *ongoing*.
- Promotes Libre technologies in public schools
- Pushed Quechua and Aymara system locales to glibc project

Associate Researcher. Escuelab, Perú – 2009 *ongoing (dormant)*.

PUBLICATIONS

- *"Manual de Traducción a Lenguas Nativas"* (2014) - a guide for translating the Sugar Learning Environment into native languages, used in Peru, Nicaragua, Paraguay (by request of Ministry of Education of Peru).
- *"Physics with XO"* (2016) – (translator, original "Física con XO" by Guzmán Trinidad, Uruguay).

WORKSHOPS AND CONFERENCES

"Pedagogía del Oprimido: Software de la Liberación" FLISOL, Bogotá, Colombia, June 2014.

"Arte con la Tortuga" Campus Party, Bogota Colombia, July 2011.

EDUCATION
• Undergraduate Studies *(no degree)*:

  Psychology at the **Pontificia Universidad Católica de Chile** 2001-2005

  Engineering at the **Universidad de Chile** 2000

• Primary & Secondary School at Deutsche Schule Santiago , Chile 1999.

LANGUAGES

- Spanish: native
- English: fluent
- German: fluent
- Portuguese: advanced

OTHER

- Karate-Do instructor (2° Dan)