Steven Githens

6909 Quail Pl Unit G
Carlsbad, CA 92009

(312) 259-7108
steve@githens.org

Experience

Andrea and Melinda diSessa Family Foundation, Berkeley CA 2021 – Present

- *Experimental Artist*
  Modernizing and realizing the dream of a computation medium and literacy by picking up on nearly four decades of engineering on the Boxer Project. Primarily written in common lisp using Lispworks and other toolchains with desktop clients on macOS and Windows. Includes all types of related edifying research in the domains of education, programming languages, interoperability, and the future of end user computation.
  https://boxer-project.github.io/

Raising The Floor, Washington DC, San Diego CA March 2018 – September 2020

- *Software Engineer*
  Built and contributed to several extensive systems for accessibility and auto personalization, with an emphasis on user interfaces for people with disabilities to discover, articulate, and refine their personal needs and preferences. This included substantial work on the Global Public Infrastructure Initiative (GPII) and related extension projects written in client/server node.js and extension libraries in C++, C# and other languages.

Komen Tissue Bank, IU Simon Cancer Center Indianapolis, IN 2015 – March 2018

- *Health Research Informatics Programmer*
  Developed several web applications and client/server pipelines for curating biospecimen samples. Several projects used Python and Django for public facing and internal facing data discovery and management. Internal systems underwent alignment and deployment for HIPAA compliant data storage and use. Designed and built a pipeline for processing, anonymization, and review of mammography images stored in dicom and other formats.

IU School of Medicine, Biostatistics Indianapolis, IN February 2012 - 2015

- *Health Informatics Engineer*
  Developing tools for the International Epidemiologic Databases to Evaluate AIDS in order to evaluate prevention of mother to child transmission of HIV and cancer screening programs in Eastern Africa. Includes modules built on top of JVM technologies and languages such as OpenMRS, ODK, and Groovy.

Indiana University, Indianapolis, IN August 2008 – February 2012

- *Senior Software Engineer*
  Developing functionality for the Sakai VLE including new design for assignment delivery and work flow. Performing maintenance and iterative improvements on existing local code base. Acting as a point person on the team for in depth knowledge of the project infrastructure.

University of Cambridge, United Kingdom February 2007 – August 2008

- *Research Programmer*
  Built applications on the Sakai VLE framework at the Center for Applied Research in Educational Technologies. Areas of work included course survey tools, content repositories and numerable system modifications and pedagogical enhancements. Work done in a J2EE / Tomcat environment with tool chains such as JSR-170 / Apache Jackrabbit, and other JVM, web, and language technologies.

Northwestern University, Evanston, IL June 2004 - December 2007

- *General and Organic Chemistry Undergraduate Lab Coordinator*
  Responsibilities included managing enrollment and grades for over 1400 students, maintaining spectrometers and other lab equipment, and building dynamic web sites and instructional documents to further student learning.

MTU Plant Biotechnology Research Center, Houghton, MI Fall 2003

- *Undergraduate Research Assistant*
  Worked with a professor to investigate genes and motifs in plant genomes using existing software packages and writing new software with Perl, Bioperl, and PHP.

IBM, Rochester, MN

- *Co-op Software Engineer, Summer 2003*
  Worked on a small team to design, build, and deliver a data visualization framework for use in existing and future IBM Life Science solutions. Deployed in a WebSphere, J2EE environment with heavy use of XML, XSLT, and SVG. Granted patent application for "Rich Graphic Visualization Generation from Abstract Data Representation".
- *Co-op Software Engineer/Test, Summer 2001, Summer/Fall 2000*
  Ported pieces of an ODBC driver from Win32 to Linux running on an iSeries Partition. Served as a liaison to team

members on issues of installation, usage, and adoption of Linux. Performed testing and built automated test buckets using Perl and other scripting facilities for the OS/400 iSeries NetServer. Coded UI modifications for the iSeries Operations Navigator using Visual C++ (MFC) and shipped custom DLL's to customers.

Botany Laboratory, Michigan Tech

- *Undergraduate Teaching Assistant, Spring 2003*
  Led a table of 6-8 students in a weekly lab, covering new material and laboratory techniques from Monera to Magnoliophyta. Also wrote software to serve as a study aide to students using Java/Swing. This was distributed to students on a CD each term.

Education

Michigan Technological University, Houghton, MI
B.S., Computer Science and Bioinformatics, December 2003. Graduated with Honors.