

LEVI R. SELF

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A man of broad interest, including programming, mathematics, finance, education, science, and history. An expert in data mining and manipulation and a strong advocate of creative mechanization. A lover of research and finding out things new.

(Updated Aug 2 2011. The latest version of this document can be found at <http://www.leviself.com/resume.pdf>.)

TECHNICAL OVERVIEW

Development

- Python
- Java
- SQL
- VBA Excel/Word
- Mathematica/Maple
- Matlab/Octave
- QT
- GIS

Productivity

- Office
- Photoshop/Gimp
- Illustrator/Inkscape
- GSP/Geogebra
- EMBLEM
- Rate Assessor/Classifier
- TeX/LaTeX

Web

- HTML/XHTML
- CSS
- Javascript
- Amazon Web Services
- Web Scraping

AWARDS & CERTIFICATIONS

- ICGA 2009 Pamplona, Kriegspiel, Silver Medalist
- A+ Certification, November 15, 2000
- SOA/CAS Probability Exam
- SOA/CAS Financial Mathematics Exam

EDUCATION

B.S. Mathematics

University of Texas at San Antonio

EXPERIENCE

Direct General Insurance

March 2011 — Present

Actuarial Analyst

Non-standard auto insurance company based in Nashville, TN

- Performed actuarial pricing and reserving.
- Provided rate filing support to product managers to answer state regulators' concerns.
- Performed competitive analysis to analyze competitive position on a segment level.
- Designed ad-hoc data pulls to assist with underwriting and other business needs.
- Provided weekly summaries to management of my own findings and opinions.

MapAnything

February 2007 — Present

Cofounder

A fun personal side-project, MapAnything makes maps to display the prevalence of a given term in the US phonebook.

- Designed and launched using Python, Javascript, Autohotkey, Golden Software MapViewer, ArcGIS and John Emerson's DIY Map
- Presented the underlying technology at the 2006 UTSA Engineering, Science, and Biotechnology Student Conference

Peak Systems

November 2010 — March 2011

Contractor

Technology Managed Services and Staffing company

- Installed replacement equipment in retail stores including POS systems, Desktop PCs and wireless scanners
- Worked with internal IT staff remotely to register and name network devices

Peace Corps Namibia

Nov 2008 — November 2010

Volunteer

International development agency operating in over 60 countries.

- Instructed around 100 grade 8 students in mathematics, around 150 grade 9 and 10 students in basic computer literacy, and around 100 grade 8 students in English as a second language.
- Administered, upgraded, and maintained computer lab
- Brought internet to the school using a USB SIM card dongle
- Assisted with training conference on gender awareness, HIV/AIDS, careers, and goals
- Developed afternoon compensatory education program for individual targeted instruction in English and mathematics
- Developed and conducted adult and community education course to teach basic computer literacy
- Acquired understanding of Namibian culture and language
- Assisted with the construction of biosand water filters to help community members purify river water
- Elected by my peers to Volunteer Advisory Committee as a liaison between volunteers and Peace Corps staff

Katherine Anne Porter School, Wimberley, TX

January 2008 — June 2008

Teacher

Secondary charter school providing excellent educational opportunities and after-school programs.

- Instructed around 80 high school students in Algebra, Geometry, and Pre-calculus
- Volunteered to tutor students for an hour each day after school

EMB America LLC, San Antonio, TX

January 2007 — January 2008

Actuarial Analyst

Global actuarial property and casualty consulting company. Arguably the largest and most successful such firm in the world. Provides consulting to 28 of the top 30 P & C firms in the world and virtually all of the top 20 P & C firms in North America.

- Assisted with the construction of predictive models for our clients' products
- Conducted training of actuaries on the use of EMB's software products EMBLEM, Classifier, and Rate Assessor
- Conducted research to solve novel problems in auto insurance. For example, classified vehicle models using the Delaunay triangulation
- Introduced key process improvements which drastically reduced cost and time

UT Health Science Center, San Antonio, TX

Feb 2003 — September 2003

Lab Technician

Research center providing graduate, medical, dental and allied health education programs. Worked in the laboratory of Dr. Robert Klebe, the earliest researcher in the now rapidly progressing field of cell printing.

- Usually performed one to three experiments a day aimed at printing mammalian cells onto a substrate using a standard (but retrofitted) Epson inkjet printer
- Carried out routine tissue culture tasks, such as maintaining cell lines
- Worked on a gelatin scaffold to solve the as yet unsolved problem of 3-dimensional cellular printing
- Investigated writing custom printer drivers to control droplet size

San Antonio Go Club

April 2005 — January 2008

Founder

Another fun side-project, an official chapter of the American Go Association.

- Provided a place for local residents to play in person weekly
- Hosted rated tournaments
- Gave presentations of the game at the Asian Festival at the Institute of Texan Cultures
- Gave presentations of the game at the San Antonio Museum of Art

OTHER VOLUNTEERING

Senseman Lab

Worked on applying the GENESIS signal processing language by James Bower to do biologically accurate modeling of data collected from the response to stimuli of *in vitro* turtle brains

Christian Assistance Ministry

Worked in the library of a homeless shelter in downtown San Antonio, TX