Daniel Díaz Casanueva

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http://daniel-diaz.github.com

Skills

– **Programming languages**
  * Expert: Haskell, HTML, CSS, LaTeX.
  * Experienced: Prolog, C, SQL, Pascal.

– **Development platforms and tools**
  * Platforms: Windows, Linux and Mac OS X.
  * Tools: Git, Vim, Microsoft Office, Adobe Photoshop, Corel Draw, GIMP.

– **Languages:** Fluent English and Spanish.

Released projects

– `HaTeX`: Domain Specific Language (DSL) of LaTeX, written in Haskell. It includes many combinators and techniques to generate well-formed LaTeX code.

– `DTC`: DTC (Data To Class) is a theoretical library which transforms systematically data declarations to class definitions.

– `Clipboard`: Simple library for Windows users of Haskell that want to manage their system clipboard.

Recent projects

– `matrix`: A highly efficient library for matrix computations, written in Haskell.

– `wavy`: Sound library, written in Haskell. It includes methods for audio encoding, decoding, synthesis and manipulation. Algorithmically built to be efficient.

Achievements

– Co-writer of the **Haskell Communities and Activities Report (HCAR)** from the nineteenth (November 2010) to the twenty-third edition (November 2012).

– **Assistant editor** (November 2012 to now). Topology textbook written by Frédéric Mynard and Szymon Dolecki.

– **Layout editor** (October 2012 to now). The Southern Praxis, Georgia Southern University newsletter.

– **International Student Exchange Program (ISEP)** academic merit scholarship (May 2012).

– **Filakada Leadership Convention**, Organizer (August 2010, January 2011, August 2011). Two days event where more than 2000 people enhanced their social and leadership skills.

– **Research assistant** (November 2008 to June 2009). Computing statistical reports on aminoacid sequences using Haskell.

Education

– **Bachelor in Mathematics**
  Universidad de Málaga
  Expected date of graduation: July, 2014.

– **Algorithms: Design and Analysis**
  Stanford University
  Coursera online course (January 2013 to March 2013).

- **Bachelor of Science in Mathematics**
  Georgia Southern University
  ISEP exchange student 2012/2013.

WORK EXPERIENCE

- **Tutor in Mathematics** (September 2007 to now).
  * Assist high school students to improve their mathematical skills.
  * Prepare graduate students for the GRE test.
  * Teach Mathematics to college undergraduate students.
- **Audio mastering engineer** and **Music composer**. Freelance (August 2004 to now).
  * Mix and enhance music quality for the audience.
  * Compose instrumental tracks for different groups.
  * Perform as a DJ in concerts.
  * Editor in a Georgia Southern University radio show.
- **Graphic Designer**. Lumitel (October 2007 to July 2008).
  * Design illustrations using Corel Draw and Adobe Photoshop.
  * Communicate with clients through phone conversations and in person meetings to assure customer satisfaction.
  * Typesetting, proof reading and color adjustment of images.
  * Use of full color digital printer and copier.
  * Manual crafting of cartels.

REFERENCES

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