Daniel Alberto Herrera Rendón

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https://github.com/hhefesto
https://blog.hhefesto.com

Education:
Instituto Tecnológico Autónomo de México (unfinished)
1. Computer Engineering (7 semesters: 87% of the credits needed to graduate)
2. Applied Math (5 semesters)
3. Economics (4 semesters)

Technical skills:
- Languages: Haskell, C, C++, Java, Nix, PHP, Elisp (Emacs), Clojure, Visual Basic, SQL
- My current choice of web stack + other techs: NixOS, nginx, Postgres, Haskell, Yesod, nixops, GCE
  - https://rdata.com.mx/ (unfinished, but please play around)
- Techs worth mentioning on my personal computer: NixOS, GIT, Emacs, XMonad
- Have deployed to Amazon Web Services and Google Compute Engine
- Databases I've used: Postgres, MySQL, Microsoft SQL server, Glassfish, Apache Tomcat

Work experience:
- CTO of RDATA S de RL MI (http://rdataa.com/)
  - 2016 - Present
  - Maintain AAnalyzer (a C++ experimental physics desktop application for fitting some non-linear functions to XPS experimental data)
  - Porting our PHP web platform (user management, chat support center, license purchasing, expiring validation) to Haskell
    - NixOS, nginx, Postgres, Haskell, nixops, GCE, yesod, esqueleto, lucid
    - rdataa.com is the old platform and aanalyzer.hhefesto.com is the almost finished replacement
  - Train newcomers in Haskell
- Intern at Microsoft, Redmond
  - Summer of 2016 (3 months)
  - Worked on an Excel add-in to implement a Scratch-like macro recorder
- Co-Founder and Developer of a startup: Slice
  - November 2015 - January 2016
  - Developing a REST API (Clojure) and configuring linux servers (Postgres, Tomcat, Nginx)
- Software Developer at Blue Messaging SA de CV (Mexico City)
  - July 2015 - November 2015
  - Development of natural language processing algorithms in Java: a natural language to arabic numbers processor, and a natural language date to UTC formatting using a parser. Use of Scrum (Agil)
  - http://bluemessaging.com/
- CTO and Innovation Coordinator at the startup Red Wolf SA de CV (Mexico City)
  - August 2014 - January 2015
  - Developed the backend (API, database, and AWS EC2 hosting), and designed & executed the technical interview to hire developers
  - http://red-wolf.io/

Currently developing personal projects:
- Personal Blog https://blog.hhefesto.com
- Youtube video tutorial for the previous blog post using Komposition (a haskell video editor)
- A web page similar to trumped.com but with the Mexican president's voice, and using a deep neural network for the text to speech generator

Participations, awards and leadership:
- A Proof of Work seminary to Universidad Autónoma de Querétaro's math department (1.5 hours talk)
- Secretary General of AEF (foreigner student body of ITAM) from spring 2012 to fall 2013
- Third place in Concurso Interuniversitario Iberoamericano de Matemáticas 2013 (Iberoamerican Math Universities Competition: the test and other things are at http://xiciim2019.eventos.cimat.mx/)
- Participation in Robocup 2012 (international robotics competition)
- Three participations in the ACM-ICPC regionals (algorithmic coding competition)
- Honorary mention on the mexican national math olympics (OMM)
- First place in high school state math olympics (Querétaro)

About me:
- I love math: currently trying to dabble in Category Theory
- I fell in love with functional programming
- I am hardworking and like being part of a team
- Eager to learn and love teaching (teaching usually helps me learn deeper plus other good side effects)