

# DENILSON FIGUEIREDO DE SÁ

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## Education

- **UFRJ**—Rio de Janeiro, Brazil  
*Bachelor's degree in Computer Science (2003 - 2011)*
- **CEFET/RJ**—Rio de Janeiro, Brazil  
*Technical education in Informatics (2001 - 2002)*

## Skills

- **Spoken Languages:**
  - Portuguese: native language.
  - English: near fluent.
- **Computer Languages:**
  - Proficient in JavaScript, Python, Shell Script.
  - Proficient in HTML, CSS and SVG following W3C/WHATWG standards.
  - Familiar with Assembly, C, C++, Go, PHP, SQL.
- **Operating Systems and Network:**
  - Advanced Linux user. Previously used Slackware, Gentoo, Ubuntu
  - Familiar with standard Unix/Linux tools and common Linux services.
  - Familiar with TCP/IP, routing, NAT, common network services and protocols.
- **Other skills:**
  - Familiar with AVR 8-bit microcontrollers (which are used in Arduino).
  - Electronic circuits as a hobby.

## Experience

- **Software developer at aceitaFacil, Belo Horizonte (2014 - 2014)**
  - *aceitaFacil* was a start-up focused on receiving and distributing online payments.
  - Refactored and expanded the existing HTTP RESTful backend in PHP.
  - Wrote a user-facing web-based dashboard in Python and Django.
  - Wrote a backend web hook server/service in Python.
  - Wrote some deployment scripts in bash.
  - Also wrote code in JavaScript and SQL.
- **Software engineer at Google Brazil, Belo Horizonte (2011 - 2013)**
  - Worked in the Ads team and in the Search Quality team.
  - Wrote code in many languages: C++, Java, Go, Python, JavaScript, bash.
  - Wrote Chrome extensions as tools for internal development.
  - Worked with Map-Reduce and Protocol Buffers.

- **Software developer at Vialink, Rio de Janeiro (2007 - 2011)**
  - *Vialink is a small company specialized on network infrastructure, software development, and ISP (Internet service provider).*
  - Worked on web applications using Python, Django, MySQL, JavaScript.
  - Wrote a module for generating PDF from a Django template using  $\text{\LaTeX}$ .
  - Wrote a Python module for creating/previewing labels in EPL2 language.
  - Worked with a designer to develop a few websites (HTML, CSS, JavaScript, PHP and Wordpress).
  - Helped with Linux server maintenance and network troubleshooting.
- **Scholarship at UFRJ (2004)**
  - Modified OpenSSH server to support to single-use passwords.
- **Sysadmin of a computer lab at UFRJ (2003 - 2007)**
  - Managed a dozen Linux/Windows machines and a couple of Linux servers.
  - Network configuration and troubleshooting, including DNS, firewall, NFS, Samba, SSH and other common Linux services.

## Competitions

- **OBI (Brazilian Olympiad in Informatics)** contestant in years 2002 and 2003. Fifth place in 2003 (gold medal), and third place in IOI-2003 selection.
- **IOI (International Olympiad in Informatics)** contestant in 2003.
- **ACM ICPC (International Collegiate Programming Contest)** contestant in years 2004, 2005, 2006 and 2007. Bronze medal in 2006 Brazilian Finals.
- **Google Code Jam Latin America** contestant in 2007, 22nd place at on-site finals.

## Open Source Projects and Contributions

- USB HID absolute pointing device using an ATmega8 AVR 8-bit microcontroller and a magnetometer. Firmware under 8KB written in C, as well as some auxiliary tools written in Python. Works out-of-the-box on any system, no extra software required.  
<http://bitbucket.org/denilsonsa/atmega8-magnetometer-usb-mouse>  
<http://github.com/denilsonsa/atmega8-magnetometer-usb-mouse>
- prettytyping, a shell script wrapper for ping providing a better UI.  
<http://denilsonsa.github.io/prettytyping>
- SS TV Remote, a Chrome app to control a Samsung TV over the local network.  
<https://github.com/denilsonsa/crx-ss-tv-remote>
- Simple server monitoring tool. The back-end was written in bash, the front-end in PHP.  
<http://bitbucket.org/denilsonsa/servermon>  
<http://github.com/denilsonsa/servermon>
- Many small personal projects at  
<http://github.com/denilsonsa>  
<http://bitbucket.org/denilsonsa>  
<http://devpost.com/denilsonsa>
- User-scripts (for Chrome, Firefox with Greasemonkey, or Opera browser) at  
<http://userscripts-mirror.org/users/120597/scripts>
- User-styles at <http://userstyles.org/users/194017>
- Contributed some ebuilds to both Gentoo Linux and Gentoo Sunrise.