

Hugo Osvaldo Barrera | CV

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I'm an experienced software developer and engineer. I've been programming for over ten years, and working with python for about six years. I'm very passionate about code correctness, standards compliance, and writing clean, maintainable code using modern technologies and workflows.

Professional Experience

- **Shiftgig Inc** **Ciudad Autónoma de Buenos Aires**
Python Engineer *Feb.2017–Ongoing*
My responsibilities include collaborating with cross-functional teams to deliver product features and enhancements, writing unit tests for automated testing and implementation of data models in relational and non-relational stores.
- **ShipNow SRL** **Remote**
Sr Software Developer & Software Architect *Jan.2016–Sep.2016*
My responsibilities have varied for simple development, to defining workflows, deployment techniques, and selecting the appropriate tools, services and environments for the team, though all final decisions are also taken as a team.
- **Freelancer** **Ciudad Autónoma de Buenos Aires & Remote**
Consultant & Software Developer *Mar.2014–Mar.2016*
I worked as an independent software developer and consultant, providing custom solutions to a variety of customers under my own name and brand.
My responsibilities have varied across projects, from merely backend django developer/maintainer, to full stack developer in django, ruby on rails, and a few other technologies.
- **Assia Inc.** **Remote**
Frontend Developer *Mar.2013–Mar.2014*
I was responsible for all aspects of development, design and maintenance of web-based software in Java and JSF. I was required to take broad ownership of technical tasks including the study, analysis, design and programming of new and existing applications and functionality.
- **WikiLife** **Ciudad Autónoma de Buenos Aires**
Full-Stack Software Developer *Apr.2012–Mar.2013*
I contributed to the design and development of a tornado-based REST API, as well as the backend project which handled and manipulated high volumes of health-related information, and analysis of various related statistics.
- **Tultix** **Ciudad Autónoma de Buenos Aires**
Software Developer *Aug.2011–Jun.2012*
My tasks included the creation of various java web-based application, including several data-processing and format-conversion systems, used to convert large volumes of non-uniform data into standardized formats.
- **SAP AG** **Provincia de Buenos Aires**
IT Support Specialist *Dec.2010–May.2011*

I provided first-level IT support for SAP staff, both locally and remotely. This included troubleshooting user issues, as well as educating users to self-serve themselves and become self-sufficient in basic IT-related tasks.

- **DreamSys SRL** **Comodoro Rivadavia**
Dec.2009–Oct.2010
Software Developer & Systems Administrator
I participated in the development and maintenance of various web-based, desktop and mobile software applications, in Python, Java and Flex. Administration of related servers and networks, as well as on-site IT support in general.
- **Universidad Nacional de la Patagonia San Juan Bosco** **Comodoro Rivadavia**
May.2008–Nov.2009
Software Developer & Systems Administrator
I provided on-site support to university staff and professors, and maintenance of internal systems. Contributed to several improvements on deployment of new terminals.

Teaching Experience

- **Universidad de Palermo** **Ciudad Autónoma de Buenos Aires**
Mar.2012–Current
Teaching Assistant
I've been teaching the basics of procedural and object-oriented programming (as a TA on the course "Programming I"), object-oriented patterns and design (as a TA on "Object Orientation I") and best practices in general to Engineering students.
- **Escuela Da Vinci** **Ciudad Autónoma de Buenos Aires**
Oct.2015–Dic.2015
Substitute Teacher
I taught the course "Instruction on Object Oriented Programming I" to Programming students, diving into the basics of OOP in a Java-based environment.
- **UNPSJB** **Comodoro Rivadavia**
Apr.2009–Oct.2010
Teaching Assistant
I helped shape the minds of young students by teaching and assisting them through student the basics of procedural programming and low-level computing to Computer Science students, as a TA on the course "Introduction to Programming".

Academic Experience

- **UPCR Labs, UP** **Ciudad Autónoma de Buenos Aires**
Jun.2013–Jul.2014
Soft Computing Researcher
I researched various applications and implementation of multiple purpose evolutionary algorithms, and their applications to intelligent web crawling.
- **AIGroup, UP** **Ciudad Autónoma de Buenos Aires**
Apr.2011– Jun.2013
Soft Computing Researcher
I worked on an intelligent web crawler which implements an exploration method based on considering the semantic distance between keywords.

Education

Academic Qualifications.....

- **Universidad Nacional de la Patagonia San Juan Bosco** **Comodoro Rivadavia**
Informatics Engineering, incomplete 2007–2010
I did not finish these studies nor receive a degree since I relocated to Buenos Aires to pursue richer career opportunities.
- **Universidad de Palermo** **Ciudad Autónoma de Buenos Aires**
Systems Analyst 2011–2017
I've completed all courses and exams for this undergraduate title, which is currently being processed.
- **Universidad de Palermo** **Ciudad Autónoma de Buenos Aires**
Licentiate in Computer Science 2011–2017
I'm in the last year of this degree, and should have finished this career by early 2018.
- **Universidad de Buenos Aires** **Ciudad Autónoma de Buenos Aires**
Licentiate in Mathematics 2017–2023
I'm getting started in this university career as I finish my previous one, and my intended goal is to complete this by approximately 2023.

Conference Publications.....

- E. Gorbatik, H.O. Barrera, E. Schneider Loaiza, F. Riaño Santiesteban, F. Gindre, M.D. López De Luise. "Web Crawling clustering on multidimensional space based on distance and its application to Opinion Mining". In: *TRIC V, CIS-IEEE*, June 2012, Argentina.
- E. Gorbatik, H.O. Barrera, F. Gindre, M.D. López De Luise. "Smart web crawling with fuzzy clustering". In: *IADIS European Conference Data Mining*, July 2012, Portugal.

Technical and Personal skills

- **Programming Languages:** Proficient in: CoffeeScript, **Python**, Ruby, JavaScript, shell.
Also some ability and interest with: C, C++, C#, Rust, TeX.
Has also worked with: Golang, Java, PHP
- **Industry Software Skills:** Git, GitLab, continuous integration, continuous delivery, etc.
- **General Business Skills:** Good presentation skills, great at communication. Skilled at coordinating teams and their workflows.
- **Languages:** I am bilingual, having excellent domain of Spanish and English, both in written and oral forms. My knowledge of English was acquired as a child, doing several years of primary school in Bristol, UK. I am currently learning German, but can only handle basic reading and writing for now.
- **Other:** Good understanding of operating systems, architectures, and full-stack engineering. Can write clear and organized documentation.

Interests and extra-curricular activity

Open Source Contributions.....

- I've collaborated with dozens of contributions to a variety of open source projects over the years, varying from small one-line fixes to large refactors or rewrites.
- I am one of the maintainers for the *pimutils* organization (github.com/pimutils), as well as the lead maintainer of *todoman* and a frequent collaborator of other projects under the organization's umbrella.
- I also maintain a variety of other open source projects of my own available at GitHub, GitLab, and the AUR.

Other interests and activities.....

- I am a free software advocate. I have contributed to multiple open source projects, both in bug reports and patches (merge/pull requests). Whenever possible, I prefer to solve issues upstream, and create reusable code. I also strongly support open, well-documented standards and interoperability, as well as proper documentation and design.
- I am an animal rights activist (both for non-humans and humans), and promote these in public events organized by NGO *Animal Libre Argentina*.
- I am also an avid (albeit newbie) biker and traceur, and enjoy these sort of physical non-competitive activities.