

# Hugo Arregui

**Birth date:** December 2, 1986

**Nationality:** Argentina

**Email:** hugo.arregui.laboral at gmail.com

**Links:** LinkedIn, GitHub, GitLab

## Professional Experience

### 03/2020 - PRESENT: Engineer at Big Time Studios (Working remotely)

- Design and implement backend services
- PoC Research and development
- Stack: *typescript, Unreal Engine*

### 09/2018 - 03/2020: Tech Leader at Decentraland (Working remotely)

- Design and implement Decentraland's platform: identity, communications, user's shared state.
- Research and development
- Stack: *golang, webrtc, auth0, C++, Unreal Engine*

### 03/2016 - 09/2018: Engineer at Auth0 (Working remotely)

- Development and maintenance of Auth0's Management API
- Support users search engine using ElasticSearch
- Stack: *nodejs, express, JWT, elasticsearch, mongodb, hapi.js, AWS, git, GitHub, Kibana, Datadog, valgrind*

### 01/2015 - 06/2015: Senior Python Developer at Jampp (Working remotely)

- Worked on Jampp's Machine Learning backend.
- Stack: *zeromq, sklearn, pandas, numpy, machine learning, PostgreSQL*

### 02/2013 - 02/2015: Scheme Developer at bevuta IT GmbH (Working remotely)

- Worked on the android version of sayHey (a chat app) using Java + CHICKEN scheme + JNI.
- Stack: *android, scheme, CHICKEN scheme, C, JNI, SQLite*
- Part of this work is open-source, for example, the CHICKEN bindings for Java (in which I worked a lot)

### 08/2010 - 01/2014: C++ Developer (Ad honorem) at FuDePAN (Working remotely)

- Developed and implemented bioinformatic tools.
- Stack: *C++, Template Metaprogramming, googletest, googlemock, g++, make, Scons, Jenkins, SVN, Mercurial, gdb*

### 07/2011 - 01/2013: Regional Coordinator for Buenos Aires (Ad honorem) at FuDePAN (Working remotely)

- Volunteers coordination. Project management.

## **07/2010 - 03/2016: Freelance Software Engineer (Working remotely)**

- Developed issue tracking system for an important petrol company. (*python django psql jQuery javascript*)
- Provided consulting services for a real estate online portal. (*ruby sequel sinatra redis*)
- Developed a multi-platform mobile app to organize and manage social events. (*clojurescript clojure phonegap/cordova*)
- Provided freelance development services for Ticketek. (*python django*)
- Developed a crawler infrastructure for an important deal network. (*python scrapy flask*)

## **04/2010 - 01/2011: Ssr. Python Developer at TeraCode**

- Worked on Performable's website/platform.
- Stack: *python, Tornado, django, SQLAlchemy, jQuery, MySQL, Scrum*

## **04/2008 - 04/2010: Ssr. Java Developer at Livra**

- Worked on Livra's website. Creating and maintaining marketing tools for surveys, statistics, etc.
- Stack: *java, Apache Wicket, wicket, Hibernate, JUnit, Velocity, Lucene, PostgreSQL, Web Services, Rest, Jersey, SOAP, Axis, prototype, scriptaculous, Eclipse, Tomcat, Jetty, ant, Maven, SVN, Prototype*

## **08/2007 - 04/2008: Java Developer at Thales Information Systems**

- Stack: *IVR, asterix, struts, hibernate, spring*

## **Publications**

- 2012 - ACCU Overload Magazine #109, June 2012: Curiously Recursive Template Problems with Aspect Oriented Programming. Hugo Arregui, Carlos Castro, Daniel Gutson
- 2011 - 2do Congreso Argentino de Biología Computacional: Biopp2, biological alphabet manipulation library. Hugo Arregui, Daniel Gutson
- 2011 - 2do Congreso Argentino de Biología Computacional: Backbones Generator v2. Hugo Arregui, Rodrigo Castaño, Lucía Lauría, Rafael Garabato, Elmer Fernández, Marcos Villarreal

## **Education**

**2010 - 2014** System Analyst at CAECE University

**2017 - Elastic** Advanced Elasticsearch: Data Modeling

**2013 - Coursera** Image and video processing: From Mars to Hollywood with a stop at the hospital

**2012 - Coursera** Algorithms: Design and Analysis Part I

**2011 - ECI 2011 (UBA)** Programación de Seguridad mediante Bibliotecas - (Security programming using libraries)

**2011 - ECI 2011 (UBA)** Programación distribuida y paralela usando MPI - (Distributed and parallel programming using MPI)

**2010 - FuDePAN** C++ Internals

**2010 - FuDePAN** C/C++ Good Practices

**2005 - 2010** System Engineering at Universidad Tecnológica Nacional (Unfinished)