

# Leandro Matías Lucarella

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**Location:** Berlin, Germany  
**Nationality:** Argentine / Italian  
**Birth:** 1979-02-15  
**Updated:** 2021-09

## Profile

Versatile developer with focus on scalable distributed systems programming, library development and development tools in both low-level system programming languages and scripting high-level languages.

Quality-oriented technical lead but aware of stakeholder's and business' needs. Able to balance good practices with business requirements; focus on keeping systems as simple as possible, but as complex as needed.

Proactive self-taught, able to work on own motivation or as part of both small or big teams, specially using Open Source development methodologies and tools.

## Skills

- Languages: Python, D, C/C++, Dart, Rust, Go (interested).
- Concurrent and network programming, high-performance distributed systems, micro-services programming and design/architecture.
- Build and test automation ([GitHub Actions](#), [GitLab CI](#), [Jenkins](#), [Travis](#)).
- Shell scripting and Linux system administration.
- Training and mentoring people (programming and technical topics).
- Technical projects and release management (focus on Open Source workflows).

## Achievements

- Founding of two Linux user groups, [LUGFI](#) (2002) and [LUGMEN](#) (1998).
- Publication of several articles on the web (1999-2005). Two of them were published on Linux Free Magazine, year 1, number 1 (2003).
- Several collaborations to popular open source projects including (but not limited to): [Linux](#) (2001, C, `bttv` module), [xmi2code](#) (2003, C++), [SQLObject](#) (2006-2007, Python), [TurboGears](#) (2006, Python), [Gnomad2](#) (2005, C), [DMD](#) (2008-2019, C++/D), [sociomantic-tsunami](#) Open source programme (2013-, mostly D).
- Creation of open source projects: [Etherled](#) (2005, C/ASM, 8051 micro-controller), [Sercom](#) (2004-2009, Python/SQL), [Pymin](#) (2007, Python), [eventxx](#) (2007, C++), [ev.d](#) (2008, D), [mutest](#) (2008, C/C++/Python), [git-hub](#) (2013-, Python), [makd](#) (2016-2019, Shell/Python/Make), [beaver](#) (2017-2019, Shell), [Lunofono](#) (2020-, [Flutter](#)), [noclick.me](#) (2021-, [Rust](#), [Flutter](#)).
- Presented a talk ([Concurrent Garbage Collection for D](#)) at [DConf13](#) and gave a [Keynote](#) at [DConf16](#).

# Experience

## **The Podcast App (2021-):**

Working as a contractor to migrate the backend from a monolith using an old Django version to a new micro-services architecture using Flask+Peewee and deployed via Kubernetes. Also helping to improve the development processes and the backend performance and scalability in general.

## **Hiatus (2020):**

Taking some time off after more than 20 years. Experimenting with personal projects and learning stuff that I wasn't able to at work. Learned Rust and Dart/Flutter by developing two projects: [noclick.me](#) (link expansion service, [Rust](#) + [Flutter](#)) and [Lunofono](#) (media player app for kids, [Flutter](#)).

## **QuoScient GmbH [Software Engineer] (2019-2020):**

Doing Python development on QuoLab, a distributed security platform.

## **dunnhumby Germany GmbH [Lead Engineer - Technical Lead] (2018-2019):**

Continued Technical Lead role after acquisition of Sociomantic adding management of integration topics. Moving from [GitHub](#) to [GitLab](#).

## **Sociomantic Labs GmbH [Technical Development Lead] (2013-2018):**

Technical leading for the backend team of (grown from ~5 to ~30 distributed in 5 sub-teams). Managing of development infrastructure (testing, CI, [Debian](#) repos, [Docker](#) images, etc.). Design and architecture. Setting processes for development, testing, releasing and deployment. Proposal, kick-off and managing the open sourcing programme ([sociomantic-tsunami](#)). Migration from D1 to D2.

## **Sociomantic Labs GmbH [Software Developer] (2011-2013):**

Development of a high performance, distributed real-time bidding platform (in particular involved with the recommendation system and in-house database engines ([DHT](#), [DLS](#), [DMQ](#))). Migration from Subversion to Git ([GitHub](#)) introducing peer reviewing. Linux server tuning for high load situations.

## **Freelance independent professional (2011):**

Mostly web development in LAMP / Python.

## **Integratech S.A. (2006-2011):**

Development and maintenance of a monolithic (carrier grade) *softswitch* (H.248 in particular) in C++. Design and development of a new modular and distributed version of the *softswitch*.

## **Facultad de Ingeniería, Universidad de Buenos Aires (2004-2009):**

Assistant teacher, teaching programming topics covering C, C++, POSIX threads, BSD sockets and GTK+ GUI and more.

## **My Way (2004):**

LAMP web development and some [Linux](#) system administration.

## **Ministerio de Economía Internship (2001-2004):**

LAMP ([Linux](#), Apache, MySQL, PHP) web development and some [Linux](#) sysadmin.

# Education

## **Colegio Nacional de Buenos Aires, Argentina (1992-1997):**

Secondary school diploma, specialized in science, technology and design.

## **Facultad de Ingeniería, Universidad de Buenos Aires, Argentina (1998-2010):**

Informatics Engineering. Thesis: [Concurrent garbage collection for the D programming language](#).