

[nicolas dumazet]

software engineer

Young and open-minded; fast and motivated,
I develop to spread around the enthusiasm
I have for well-written software.

Enterprise world

Mid 2016 - present **Google, Senior Software Engineer, Zurich, Switzerland.**
Search Infrastructure.

Indexing work on User Behavior Prediction backends.

April 2011 - mid 2016 **Google.**
Image Search Infrastructure.

- ↔ High performance at an impressive scale
- ↔ Handling reliably several petabytes of data, daily

Launched a new framework allowing image indexing for Google. Based on the Percolator storage system.

My team was responsible for all content shown on images.google.com. I tweaked performance and algorithms, monitored and diagnosed live systems.

Particularly exciting, given the data size.

September 2009 - December 2010 **Nexedi K.K., R&D Software Developer, Tokyo, Japan.**
Open Source ERP development, Python, Zope, MySQL.

- ↔ Reporting to Yoshinori Okuji
- ↔ Complex, long-wanted improvements of ERP5 internals

Assigned to R&D only, helping with modernization of code and algorithmic issues.

My last project was a two month long task involving an automated data migration on all instances. The complex change allowed better performances, and through-the-web development.

Internships

February - July 2009 **National Institute of Informatics, Visiting researcher, Tokyo, Japan.**
Short experimental stop by the Research world.

Weststrasse 47, Zurich - Switzerland

☎ (+41) 79 1024 233 • ✉ nicolas.dumazet@gmail.com

Open Source

Mercurial

2009 - 2011 **Mercurial community**, *Crew member*.

- ↔ One of the trusted core members that can push directly changes
- ↔ Reviewing community patches to include them in mainline
- ↔ Trying to improve an user-friendly but complex software

Strong focus on user experience: basic features of the software should not allow losing data, and names should be intuitive rather than catchy.
Important code review practices, with a safe, healthy process.

May - August 2009 **Google Summer of Code 2009**, *Student Developer, Google*.

- ↔ Mentored by Benoit Boissinot; co-mentor **Brodie Rao**
- ↔ Improving reliability of *inotify* file event notification system

Mediawiki

2008 **Google Summer of Code 2008**, *Student Developer, Google*.

- ↔ Mentored by Brion Vibber for the Wikimedia Foundation
- ↔ Implementing core category renaming for MediaWiki, Wikipedia's PHP engine

2007 - May 2010 **pywikipediabot project**, *Developer*.

Python framework for automated edits on MediaWiki wikis
Maintaining these tools against the latest improvements of MediaWiki is critical for Wikipedia: robots using the framework are relied upon for daily maintenance of the free encyclopedia

Education

2006 - 2009 **MSc, Computer Science**, *ENSIMAG*, Grenoble, France.

- ↔ Top French school for applied mathematics and informatics.
- ↔ Spent a semester abroad: exchange at **National University of Singapore**.

2004 - 2006 **Preparatory classes**, *La Martinière Monplaisir College*, Lyon, France.

Intensive Mathematics and Physics courses before taking national competitive examination to *Grandes Écoles*

Skills

Latest topics High performance distributed systems

Coding C++, Python, on Linux

Communication **English, French**

Activities and Interests

Sports Rowing, Yoga

Relax? Strong coffee, crisp beer, relaxed Jazz

Share Burner

Weststrasse 47, Zurich - Switzerland

☎ (+41) 79 1024 233 • ✉ nicolas.dumazet@gmail.com