

[nicolas dumazet]

software engineer

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

Enterprise world

- 2018 - present **Google, Senior Site Reliability Engineer, Zurich, Switzerland.**
Data Security: Encryption and data access control, both for Google Cloud and for Google-internal infrastructure.
- Mid 2016 - 2018 **Google, Zurich, Switzerland.**
Search Infrastructure.
Indexing work on User Behavior Prediction backends.
- April 2011 - mid 2016 **Google, Zurich, Switzerland.**
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. 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.

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 Partner Acrobatics, Rowing, Yoga

Relax? Strong coffee, crisp beer, relaxed Jazz

Share Burner