


Nicolas Mattia

EMPLOYMENT

Pusher Ltd. , Platform Engineer Oct 2015 - Jul 2016, London.

- Contributed to the design and development of a high-performance, distributed PubSub system.
- Developed a pluggable system for reporting and monitoring servers' performance.
- Wrote  [pusher/nagios-sink](#), a simple service that gathers Nagios endpoints statuses.

EPFL, Lab coach for ELECTRICAL ENGINEERING I & II Jan 2012 - Jul 2012, Lausanne.

Assisted with the preparation of hands-on electrical engineering exercises, and coached the students.

EPFL, Assisting student for ELECTRICAL ENGINEERING I & II Sep 2011 - Jan 2012, Lausanne.

Helped the students during exercise sessions and corrected exams.

EDUCATION

ETHZ

Msc (Information Technology & Electrical Engineering) Sep 2013 - Jul 2015, Zurich.

Graduated in *Systems & Control* from the *ITET* department.

TUWien

Erasmus Oct 2012 - Jul 2013, Vienna.

Erasmus year in Vienna as Elektrotechnik/Bau-ingenieur.

EPFL

Bsc (Micro-Engineering) Sep 2010 - Jul 2013, Lausanne.

Graduated as *Microtechnicien* (micro-engineer) from the *MT* department.

PROJECTS

London Haskell Hacking, Haskell coding dojo

 [meetup: London-Haskell-Hacking](#)

Founded and organized a bi-monthly coding event in London Shoreditch. The events consist of a short talk by an expert followed by a coding session.

rulex, Ruby wrapper for \LaTeX

 [nmattia/rulex](#)

rulex leverages Ruby's convenient syntax in order to script text files. The first goal of the library is to simplify the use of \LaTeX .

Snake It Out³, Snake game on a 3D grid

 [nmattia/SnakeltOut](#)

A Snake-like game in a cubic world, with synchronized music. The game is available on the playstore as [Snake It Out³](#).

ACADEMIC

Toehold DNA Languages are Regular 

By Sebastian Brandt, Nicolas Mattia, Jochen Seidel, and Roger Wattenhofer, 2015. In *ISAAC'15*.

Dominating the Stone Age 

Master's Thesis

Solved graph-theoretic problems using networks of finite-state machines.

Parallel DNA 

Semester Project

Modeled and studied parallel, DNA-based computations.

Parallelizing the Schrödinger Equation 

Semester Project

Developed a fast parallel algorithm for solving the Retarded Green's Function.

Zurich - CH

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PROGRAMMING

- Proficient with: Haskell, Go, Java, Ruby, C/C++
- Basic knowledge: JavaScript, \LaTeX , Erlang, Assembly

LANGUAGES

- French (native)
- English (fluent)
- German (social and limited professional proficiency)
- Italian (beginner)

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