

Michiel Bertus de Jong
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Deep understanding of internet technology and FinTech. Critical thinker. Many years of experience developing decentralized, peer-to-peer, and scalable solutions to complex problems.

10/2016 - present [LedgerLoops](http://ledgerloops.com) FINTECH

LedgerLoops is an alternative to money, based around a novel concept: cryptographically triggered IOUs. The website (ledgerloops.com) introduces the "Whispering Merchants" problem as an abstraction of trade flows in the real world. It explains how LedgerLoops is a more decentralized solution than money, requiring everybody only to trust their immediate economic neighbors. The whitepaper defines the LedgerLoops protocol, and an implementation in Node.js is currently in the making.

08/2015 - 07/2016 [Mozilla \(Firefox OS\)](http://mozilla.com) SOFTWARE ENGINEER

Data sync for Firefox OS. Our agile team implemented a server in Python (Pyramid framework), and a client in JavaScript (the Firefox OS phone does not support Python). The goal was to synchronize bookmarks, photos, contacts, etc. in a decentralized way.

10/2014 - 06/2015 [IndieHosters](http://indiehosters.com) CO-FOUNDER

Docker-based hosting for end-users, with the aim to help decentralize the web. Our two-man project made it onto the frontpage of Wired.com.

08/2011 - present [Terms of Service; Didn't Read](http://termsofservice.com) TECH LEAD

Rating the terms of service we all agree to by checking a box when signing up for a web service, but which hardly anybody ever reads. I was interviewed about ToS;DR on National Public Radio (NPR) in the US.

09/2010 - 9/2014 [Unhosted](http://unhosted.com) / [remoteStorage](http://remotestorage.js) FOUNDER AND LEAD

Wrote the "[Unhosted Web Apps](http://unhosted.com)" book, led the remoteStorage [Internet Draft](http://internet-draft.org) at IETF, and the remotestorage.js library. Highly visible in the web tech community, and awarded several funding grants.

04/2009 - 02/2011 [Tuenti](http://tuenti.com) (Madrid) SCALABILITY ENGINEER

Lead of the "backend for core" agile team, using advanced scalability techniques to make the tuenti.com site work reliably and fast on its 1000 servers. While leading the images team, I was responsible for a self-healing Distributed Hash Table containing over a billion photos. We wrote most code in PHP.

10/2008 - 04/2009 [Kibitech](#) (Madrid) *SOFTWARE TEAM LEADER*

I was the director of the C++ development department, and in charge of a team of 8 engineers. My work consisted of the development of a system of TV2.0 in dedicated hardware. Our in-house viewer was the world's best at streaming video with SVG animations.

04/2007 - 09/2008 [By TechDesign](#) (Madrid) *BANK SECURITY*

Person in charge of all in-house software development, related to physical security in banks (time-delayed safes, access control, ATMs, fingerprint readers, license plate scanners). Using embedded microprocessors and developing algorithms that work in real time with hardware. We developed mostly in C#.

11/2005 - 04/2007 [TEVA, S.A.](#) (Madrid) *DIRECTOR OF R&D*

Responsible for the development and production of all high tech products (traffic cameras, license plate readers, etc.). I mainly wrote in C/C++.

11/2002 - 11/2005 [Hostway Ltd.](#) (London) *SENIOR SYS ADMIN*

Engineer and senior architect of Web servers and server clusters. Promoted main engineer in linux, and one of the 3 main engineers in Windows. I was responsible to maintain 200 linux servers and 100 virtual private servers, that contain 5,000 Web sites and support the email for 10,000 companies. All automation was done entirely with Python scripts.

ACADEMIC CARREER

1999 - 2001 **CWI Institute**, Amsterdam *PhD research (A.I.)*

1998 - 1999 **Oxford University** (Oxford, England) *R&D engineer*

1994 - 1998 **Leiden University** *MSc degree (Computer Science)*

1993 - 1994 **Twente University** *Electronic Engineering*

HUMAN LANGUAGES

Dutch, English, Spanish, German, French, Indonesian (in that order).

PROGRAMMING LANGUAGES

I have done a lot of JavaScript / Node.js and PHP, had some exposure to Python along the way, but I originally come from a C/C++ background.