

Louis Opter

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Systems Engineer

Experience

- Since **Software Engineer**, *Uber*, San Francisco.
- August 2013 Uber is an on-demand car service that allows everyone to have a private driver experience.
- October 2009 **Platform Engineer**, *dotCloud*, San Francisco.
to July 2013 dotCloud is one of the leading Platform as a Service (PaaS) companies:
- Added UDP support in Docker: an open-source Linux container engine made at dotCloud;
Technologies used: Go, Docker
 - Wrote a monitoring/alerting solution using CopperEgg and our platform metadata APIs;
Python/gevent, ZeroRPC, Riak (ORPC is a Python RPC using zmq, gevent and messagepack)
 - Implemented a call-tracing middleware for ZeroRPC;
Python/gevent, ZeroRPC, MongoDB
 - Designed the middleware API in ZeroRPC;
Python/gevent, ZeroRPC
 - Wrote an automated fail-over mechanism for MySQL Master/Slave;
Python, MySQL, ZeroRPC, Redis, Riak
 - Solved concurrency issues in the NAT code running on each dotCloud's LXC host;
Python, IPtables
 - Solved concurrency issues across processes using some simple sharding code;
Python, ZeroRPC
 - Wrote a LXC plugin in C for collectd.
- June 2008 to **Intern**, *COSE*, Paris, France.
- July 2009 COSE is an eight persons company producing an embedded, very high resolution camera for aerial military reconnaissance:
- Wrote a C library to communicate with the camera over an RS-232 link;
 - Wrote a C program to help the calibration of gyroscopes;
 - Set-up various services for the company: Asterisk, IPSEC, Samba, SVN, DokuWiki;
 - Made hardware choices for a ruggedized PC and for the company workstations.

Education

- 2010–2012 **Computer Science Degree**, *Epitech*, Paris, France.
In addition to the regular system programming courses:
- Member of the System Laboratory of Epita & Epitech (LSE): Developer on the Rathaxes open source project: a domain specific programming language to develop device drivers;
 - C & C++ Teacher Assistant: Assist bachelor students in their projects on Unix and Windows.
- 2007–2010 **Computer Science Bachelor**, *Epitech*, Paris, France.
- 2007 **Baccalauréat Scientifique**, *Lycée Technologique Dorian*, Paris, France.