

William Le Ferrand
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Born 1987
French Citizen
Married, 3 children

Academics

2006 - 2010 **Ecole Polytechnique** *MS in Computer Science*

Entrepreneurial activity

2008 - 2009 **beouifi.org** *built a wifi captive portal solution funded by advertisement ; won an entrepreneurial contest and was featured on the radio. 100 users (cafés, hostels)*

2009 **corefarm.org** *built a 3d rendering farm for Blender 3D using the Yafaray engine, dispatching the work on a grid of personal computers. over 1000 users trading their CPU time*

2010 **corefarm.com** *built a 3d rendering farm for Blender 3D in AWS. 100 users, commercial failure, opensourced the code*

2011 - 2013 **besport.com** *cofounded a sport social network, hired a team of 9 engineers, raised 1.2m\$*

2013 - 2014 **rambugo.com** *built an experimental marketplace for on-demand regional flights in Northern California using light aircraft*

2015 **social playbooks** *built a non-profit social app connecting families and providers of children activities in San Francisco*

2017 - **accret.io** *the factory-as-a-service*

Contracting activity

2010 - 2011 **hypios.com** *led a team of 3 engineers, built a scientific problems' marketplace connecting research centers and industrial users*

2011 **issuu.com** *designed and implemented an ad network in OCaml including real-time ad presentation and offline processing of 150M documents, handed over the code to the team in Copenhagen*

2013 **stretchinc.com** *designed and implemented a full stack prototype of a cloud based/html5 DVR, including embedded C code in HD cameras, AWS S3 storage and real time video re-encoding using ffmpeg*

2013 **referrallama.com** *designed and implemented a full stack prototype of a referral platform on top of LinkedIn*

2013 - 2016 **sumologic.com** *worked with the Search Performance team to design and implement a real time log ingest and search component that handles 5Tb+/day. designed and implemented a metrics collection and storage platform handling 2M dps from Kafka to Cassandra, deployed in AWS*

2015 **lumity.com** *built a full stack healthcare sales platform on top of Lumity's proprietary optimization engine*

2016 **alloy.ai** *built a prototype of metrics collection and search platform handling 1.5B events from Kafka to ElasticSearch, deployed in Kubernetes/GCE*

2016 - **logichub.com** *detection, classification and prevention of security breaches at scale*

Aeronautical Experience

- FAA CMEL, Instrument Rating
- 480 hours TT
- 100 hours multi-engine time, DA-42 and PA-23
- 50 hours tailwheel time, 7KCAB and 8KCAB
- Over 200 hours of G1000 time in C172, C182 and DA-42
- Latest IPC : 9/8/2016
- Clean record

Talks

- 2010 **OCaml meeting 2010** « *the collaborative rendering farm : a JoCaml grid* », <http://bit.ly/1N5kRXU>

Skills

- Programming in Ocaml (including Camlp4), Scala (including Akka), Js, SASS
- Programming in C/C++ (including Boost, OpenCV, MPI)
- Developing and scaling with AWS technologies and Google Compute Engine, including Kubernetes
- Working with large codebases spanning several teams
- Defining elegant and scalable architectures
- Defining and implementing prototypes and MVP's
- DIY hardware development, rep rap printers, raspberry Pi, basic electronics, OpenSCAD
- Part 135 legal landscape

Open source

- Wing leveler for GA aircraft, <https://github.com/accretio/wingleveler>
- Gripper for robotic arm, <https://github.com/accretio/thortools/tree/master/thorgripper>
- AWS OCaml client library, <https://github.com/williamleferrand/aws>