

# Ruben Fiszel

SWE at Palantir

Functional Programming, Compilers, ML  
and Distributed Systems

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## Work Experience

- 2017 - Present **Palantir, Software Engineer**, London, UK.  
**Core distributed infrastructure:** refactored the microservice webserver library, switching it from Jetty to Undertow, as well as developing meta-programming generators targeting it. Resulted in large performance, correctness, and maintainability improvements.  
**SQL Language Server:** Developed SQL Analysers and an infrastructure compatible with the Language Server Protocol to provide live feedback to users on our internal web IDE.  
**Devtools:** Developed Gradle plugins to solve our “Dependency hell” situation.
- Summer 2016 **SkyMind, Software Engineer Intern**, San Francisco, US.  
Wrote `deeplearning4j`'s official Deep Reinforcement Learning library `RL4J` ([github.com/deeplearning4j/rl4j](https://github.com/deeplearning4j/rl4j)).
- Summer 2013 **Crossing-Tech, Software Engineer Intern**, Lausanne, Switzerland.  
NLP prototyping.

## Education

- 2017 **Stanford University, Visiting Student Researcher.**  
Master thesis on “abstraction without compromise” at the DAWN lab under Prof. Kunle Olukotun and Prof. Martin Odersky supervision. Contributed to `Spatial`, a Scala to Hardware (FPGA) compiler and developed autonomous driving of drones using Rao-Blackwellized Particle Filters.
- 2017 **École Polytechnique Fédérale de Lausanne (EPFL), MSc in CS.**  
MSc in **Computer Science** with a minor in **Financial Engineering**  
**Overall GPA: 5.58/6 (Top 5%)**
- 2015 **Johns Hopkins University, Bachelor student in exchange.**  
Third and Last year of Bachelor: Study abroad. **Selected with a scholarship**
- 2015 **École Polytechnique Fédérale de Lausanne (EPFL), BSc in CS.**  
**Overall GPA: 5.16/6 (Top 5%)**

## Relevant Projects

- 2018 **Paper: Spatial: A Language and Compiler for Application Accelerators, 6th Author.**  
PLDI2018 <https://doi.org/10.1145/3192366.3192379>
- 2016 **Study of deep reinforcement learning methods and deep exploration.**  
Semester project at the Laboratory of Artificial Intelligence at EPFL

## Skills

- Programming Scala, Java, Python, Haskell, Typescript, OCaml, Erlang
- Interests Statistics, High-Performance Computing, Compilers, Functional Programming, Machine Learning, NLP, Distributed Systems (in particular Actor Frameworks)
- Programming TreeHacks 2017 HackEPFL 2016 HopHacks 2015 Google Code Jam: 2012, Contests 2013 Helvetic Coding Contest (hc2): 2013 IEEEExtreme Programming: 2013 (72nd Mondial Ranking) PrologIn: 2012, 2011
- Others Elected class president throughout all my years at EPFL, Ski instructor, Teaching Assistant in various courses at EPFL