Ruben Fiszel

Software Engineer

Distributed Systems, Compilers, Developer tools

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Work Experience

Oct 2019 - Present **Inpher**, ***Platform Architect***, Lausanne, Switzerland.

- Led a team to design and implement a scalable platform using a mix of **microservices** (Node, Scala) and **serverless** on k8s (GKE).
- Transformed the **growth** strategy by proposing, designing and leading the implementation of a trial environment with instant and temporary user-specific sandbox containing the whole platform.
- Made core contributions to the Scala DSL **compiler**.
- Migrated all teams to modern SWE practices: writing **RFC** and **design docs** as a mean of collaboration, **semantic versioning**, **CI/CD** (Cloudbuild), **repo automations** (Github Actions), **API definition as Spec** with OpenApi/Swagger and leveraged **codegen** to reduce boilerplate across all repos.

Oct 2017 - Oct 2019 **Palantir**, ***Software Engineer***, London, UK.

- **R&D: Founding engineer** in the first team of its kind called *Prospektor* whose mantra was "high risk-high reward". We entirely refactored the webserver library used by every microservice, switching it from Jetty to Undertow and implemented codegen to target it, enabling async service implementation resulting in company-wide significant performance, correctness, and productivity improvements.
- **Search & Indexing**: **Performance** improvements to a microservice enabling a custom fine-grained **ACL** on top of **Elasticsearch**
- **SQL Language Server**: Developed SQL Analysers and an infrastructure compatible with the Language Server Protocol to provide live feedback in a web IDE.
- **Devtools**: Developed Gradle plugins to solve dependencies issues shared by most teams.

Summer 2016 **Skymind**, ***Software Engineer Intern***, San Francisco, US.

Created deeplearning4j's Deep Reinforcement Learning library RL4J (in Eclipse Foundation)

Summer 2013 **Crossing-Tech**, ***Software Engineer Intern***, Lausanne, Switzerland.

Education

2017 **Stanford University**, *Visiting Student Researcher.*

Masters thesis on "abstraction without compromise" at the DAWN lab under Prof. Kunle Olukotun and Prof. Martin Odersky supervision. Contributed to Spatial, a Scala 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: 5.61/6 (Top 5%)

2015 **Johns Hopkins University**, *exchange student.*

Third and Last year of Bachelors: Study abroad. **Selected with a scholarship**

2015 **École Polytechnique Fédérale de Lausanne (EPFL)**, *BSc in CS.*

Overall GPA: 5.16/6 (Top 5%)

Publications

2018 **Spatial: A Language and Compiler for App Accelerators**.

Paper, PLDI2018 https://doi.org/10.1145/3192366.3192379

Skills

Programming	Scala, Typescript, Rust, Python, Java, Haskell, OCaml
Domain Knowledge	Distributed Systems, Functional Programming, Compilers, Developer Tools, High-Performance Computing, Machine Learning, NLP, Statistics
Programming Contests	TreeHacks 2017 HackEPFL 2016 HopHacks 2015 Google Code Jam: 2012, 2013 EPFL hc2: 2013 IEEEXtreme Programming: 2013 (72nd) Prologin: 2012, 2011
Others	Elected student class president at EPFL (2012-2017), Ski instructor, TA at EPFL (Java/Scala/Probability)