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).
- Introduced the practice of writing **RFC** and **design docs**.
- Made core contributions to our Scala DSL **compiler**.
- Migrated all teams to modern SWE practices: **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.
- 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.
- Led the automation of AWS/GCP Marketplace purchase to **sandbox deployment**. Led the implementation of the custom-made **Auth** and **Licensing** system.

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

- **Search & Indexing**: Made significant **performance** improvements to a microservice enabling a custom fine-grained **ACL** on top **Elasticsearch**
- **Infra:** 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 significant performance, correctness, and maintainability improvements.
- **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.

Wrote 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)