

Jakob Odersky | Curriculum Vitae

2 Townsend Street, Apt 1-804 – San Francisco, CA 94107 – USA

+1 415 867 03 47 • [✉ jakob@odersky.com](mailto:jakob@odersky.com) • [🌐 jakob.odersky.com](http://jakob.odersky.com)
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Education

Ecole Polytechnique Fédérale de Lausanne **Lausanne, Switzerland**
CS Pathway *2013–2015*
Pathway courses for Master studies in computer science.

Ecole Polytechnique Fédérale de Lausanne **Lausanne, Switzerland**
Bachelor studies *2010–2015*
Bachelor studies in physics

Gymnase de Burier **Burier, Switzerland**
Matura *2007–2010*
Graduation with honorable mention and prizes in mathematics and physics. Including a one-year exchange in Gießen, Germany at Liebig Schule.

Experience

Vocational

Driver Inc **San Francisco, USA**
Software Engineer *May 2017–Oct 2018*
○ Architect of the Scala platform that powers a treatment matching system for cancer patients.

Data Monsters (datamonsters.co) **San Francisco, USA**
Advisor *Apr 2017–present*
○ Advisor for a consulting company, specializing in solutions around big data and machine learning.

International Business Machines **San Francisco, USA**
Advisory Software Engineer *Oct 2015–May 2017*
○ Part of the Spark Technology Center, IBM Watson Data Platform
○ Contributor to Apache Spark and the Scala compiler
○ Committer on the Apache Toree project

Crossing-Tech SA **Lausanne, Switzerland**
Contract Developer *2011–2014*
○ Development and maintenance of the company's website.
○ Implementation of a custom, version-controlled content management system.

Miscellaneous

Event organizer *2016–present*
○ Organization, hosting of and speaking at meetups in the Scala community

Building a Drone from Ground-Up

2014–2015

- Engineering a quadrotor.
- Designing a controller circuit board.
- Porting a real-time operating system and flight-stack to a new processor.
- Implementation of virtual cockpit ground-control software.

Hobby Developer

2009–present

- Implementation of a physics engine, as my school's final year project.
- Development of a C and Scala library for low-level communication to actor based systems.
- Creating and managing a custom server on an ARM development board
 - tweaking the Linux kernel
 - Debian packaging
 - various server administrative tasks
- Building of a real-time kernel for embedded AVR systems.
- Implementation of a scientific calculation utility library, with a focus on compiling specialized commands from Scala to Matlab.

Languages

German: fluent, European language level C2

Mother tongue

English: fluent, European language level C2

Cambridge Certificate of Proficiency

French: fluent, European language level C2

School and University

Computer skills

Operating Systems: Advanced knowledge and experience in GNU/Linux, especially Debian. Experience managing deployments with Kubernetes.

Programming Languages: Scala, C, C++, Shell, Java, JavaScript, Python, Matlab, Rust

Libraries and Frameworks: Akka, Apache Spark, Slick, OpenGL

Web Development: Akka HTTP, “Play!” framework, ScalaJS, AngularJS, Bootstrap

Source Control: Git, SVN

Office and Design Tools: LaTeX, Inkscape, KiCad, OpenSCAD

Other: In-depth experience with GnuPG

Interests

Tennis: Played a few years in a club, continuing for fun.

Computers and Electronics:

- Developing software and hardware for my needs.
- Open-source software enthusiast.

Dancing: Various dances, ranging from Standard to Salsa.

Brewing: Self-made beer.

Outdoors: Hiking.