

Semion Sidorenko

EPFL - CDH
Station 14
CH-1015 Lausanne

+41 79 881 07 35

semion.sidorenko@gmail.com

github.com/ssidorenko

Profile

Experienced machine learning and software engineer with broad DevOps skills and management experience. Good practical and theoretical knowledge of data science, machine learning, and deep learning. Currently studying for a Social Sciences M.A., with a focus on communication, media, and science and technology studies.

Skills

| | |
|------------------------|--|
| Python | Excellent knowledge of the language, especially with Django and Flask. |
| Javascript | Solid background, proficient with Vue.js, d3.js, jQuery. |
| Data Science | Good knowledge of machine learning fundamentals, data processing, and visualization skills. Experience with Pandas, sklearn, Jupyter, Matplotlib. |
| Deep Learning | Theoretical fundamentals and research experience. Practical experience with Convolutional Neural Networks for image recognition and generation. Good knowledge of PyTorch. Experience in building production implementations of research models. |
| Management | Experience with implementing Agile methodologies (Kanban, Scrum), as well as supporting tools (Jira, ZenHub, Jenkins, GitHub actions, automated testing). Sourcing, screening, and interviewing candidates. |
| Social Sciences | Comfortable with quantitative methods (survey design, statistical analysis) and qualitative methods (ethnography, interviews). Good knowledge of the epistemological and philosophical background of social sciences. |
| Teaching | Solid experience in teaching programming online, rated on average 5/5 stars by students on codementor.io. Experience in supervising students and interns for research projects. |
| Other | Broad DevOps skills. Proficient with Git and GNU/Linux administration. Working knowledge of PostgreSQL, HTML, CSS, Scala, R, Java, Terraform, Docker, Ansible, S3, EC2. |
| Languages | French: native language, English: fluent, German: B1 |

Education

September 2020 – September 2022 (expected): Social Sciences M.A. at UNIL, Lausanne
Social Sciences M.A. program in the orientation "Culture, Communication and Media".

September 2018 – September 2020: Social Sciences B.A. at UNIL, Lausanne
Social Sciences B.A. program with an emphasis on science and technology studies as well as media studies. Strong grades (5.33 GPA).

January 2016 – August 2018: Computer Science M.Sc. at EPFL, Lausanne
Graduated with a Computer Science M.Sc (5.04 GPA). Won third place in the 2017 ACCES Data Visualization Contest, Dynamic Category.

September 2011 – August 2016 : Computer Science B.Sc. at EPFL, Lausanne

Work

November 2020 – present: Data+Software Project Manager at Direction Générale de la Santé du Canton de Vaud, Lausanne

Project manager for the COVID-19 contact tracing center. Multiplied by ~2.5x the capacity of the contact tracing center of Canton de Vaud by automating data entry and implementing ETL pipelines. Built a bespoke backward tracing application used daily by over 50 operators. Scaled up the engineering team from 1 to 4 engineers. Led the development of an analytics pipeline and oversaw the implementation of new data collection processes. Responsible for IT coordination around contact tracing between stakeholders inside and outside the state administration.

Technologies used: Python, PostgreSQL, InfluxDB, D3.js, Pandas, Django, Docker.

Other skills: decision-making, agile project management, communication.

June 2020 – present: Teaching Assistant at dhCenter, EPFL, Lausanne

Teaching assistant for the course HUM-485 "Critical Data Studies". Gave a crash course in Python and Pandas.

September 2018 – September 2020: Machine Learning Engineer at the Distributed Information Systems Laboratory, EPFL, Lausanne

Built a scalable computer vision application based on a research prototype implementing reverse image search using dense vectors computed with convolutional neural networks, as well as an active-learning method for labeling images. Supervision of research interns and student projects.

Technologies used: Python, PostgreSQL, Django, PyTorch, Celery, Redis, JavaScript, Vue.js, Terraform, Ansible, S3, EC2.

June 2017 – August 2018: Software Engineer at 89grad GmbH, Bern, Switzerland

Built data-processing software for e-commerce handling millions of products. Improved a CNN-based image denoising algorithm as part of my master's thesis.

Technologies used: Python, PyTorch, PostgreSQL.

July 2013 – Current: Python Expert on AirPair.com and codementor.io

Mentoring clients who seek help with various Python projects. Rated on average 5/5 stars by previous clients.

June 2012 – Current: CTO / Co-Founder at Edgecom SARL, Pully, Switzerland

Consulting work for early-stage startups.

Technologies used: Python, Flask, Django, Javascript, OAuth, Scrapy.

January 2011 – February 2013: Python Developer at CoMeLab SA, Lausanne, Switzerland

Designed and built a laboratory information system for a small medical laboratory. Set up a fault-tolerant and scalable infrastructure for hosting the system. The software has then been acquired by the Swiss branch of Synlab SA, the leading provider of laboratory services in Europe.

Technologies used: Python, PostgreSQL, Django, Puppet, Fabric.

March 2008 – February 2009: LAMP / Python Trainee at Bemore SA, Lausanne, Switzerland

Culture

March 2020 – present: Co-founder, co-curator, and CTO at radio 40, Lausanne

Launched a web radio for supporting artists impacted by the COVID-19 lockdown. Co-curation and management of the technical side of the web radio. Largely reduced the work needed for day-to-day operations of the radio, including communication, production, and programming, by automating most processes using Google Forms and custom scripts. <http://radio-40.ch>

August 2017 – present: Co-founder at CAF? records, Vevey

Co-founded a record label which has released 8 records, distributed worldwide. <http://unptit.cafe>

2014 – present: Co-founder at DATCHATRAX, Lausanne

Curation of an online mix series centered around emerging local and international electronic music producers and DJs. <https://soundcloud.com/datchatrax>

2013 - present: DJ and producer as "Tissu", Lausanne

Released two records on the British label Lobster Theremin, which were subsequently sold out.

Played as a DJ in multiple Swiss and European cities. <https://soundcloud.com/ttissu>

2014 – 2019: Co-founder at Free Feels, Lausanne

Organization of events and parties promoting avant-garde club music and emerging international artists. <http://freefeels.party>

References

Christian Von Plessen

Medical Director for Contact Tracing at Direction Générale de la Santé du Canton de Vaud, Lausanne
christian.von-plessen@vd.ch
+41 79 316 55 58

Rémi Lebret

Scientist at the Distributed Information Systems Laboratory, EPFL
remi.lebret@epfl.ch
+41 21 693 12 57

Christoph Böcklin

Lead Engineer at 89grad
+41 58 46 91514