# Software engineer seeking Front/Back/ML work

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### **Work Experience**

2018 – Now Senior Software Engineer at Criteo, Palo Alto, California

Improved an ML data pipeline for creating campaign audiences of users likely install apps based on 5B rows of user data: Performed feature engineering, performance improvements and crash debugging.

Designed and implemented the proof of concept for a new product to expand the App Install campaigns to users unknown to Criteo.

Mentored other programmers in writing performant Spark code, introduced them to techniques such as property-based testing, efficient join techniques in Spark.

Gave internal short talks, participated in several Hackathons.

Keywords: **Spark**, Scala, Machine Learning, scalatest, scalacheck, scalafmt, JVM, classpath debugging, memory debugging, Graphite,

Prometheus, Gradle, Git, Apache Marathon, Mesos

2016 – 2018 Software Engineer at Criteo, Paris, France and Palo Alto, California (from intern to SE2)

Improved a user data aggregation MapReduce job (used by 10+ teams internally) and its tests to improve agility, reduce errors when altering/adding new fields, and avoid deprecated internal interfaces.

Oversaw and implemented the rehaul and expansion of an internal tool for the annotation of training/test sets for a machine-learning pipeline, and for the exploration of Criteo's product catalog.

Implemented an OAuth-based client in order to integrate Criteo with advertisers who use Shopify in one click.

 $Keywords: \textbf{Hadoop} \ Map Reduce, \ Spark, \ Scala, \ Grafana, \ Kibana, \ Maven, \ Apache \ Marathon, \ Mesos, \ \textbf{AngularNG}, \ AngularJS, \ \textbf{React},$ 

webpack loaders, Elasticsearch, Finatra, OAuth, Shopify, C#

#### **Talks**

2018 Tonight we won't talk about caching: Lightning talk on naming advice. Presented at the San Francisco Python Meetup Group in January

2018.

2017 Awaits, how do they work?: Full-length talk on Python's recent async and await operators for asynchronous programming. Presented at

PyBay in August 2017. Slides [http://epsy.github.io/ahdtw].

Unicode Primer [https://www.youtube.com/watch?v=UXcOK7cm\_ls]: Short talk on how to handle non-ASCII text in Python. Presented at

Pyninsula in November 2017. Slides [https://epsy.github.io/unicode-primer/reveal.js/].

2016 Lightning talk on *napper*—a concept asynchronous ReST/HATEOAS client—at the Paris.py meetup

2015 Lightning talk on clize at the San Francisco Python Users Group

#### Open-source software

2011 – Now clize [https://github.com/epsy/clize]: Design, maintainance and support of a Python opensource library—a command-line argument parser

—as well as its support library for metaprogramming (sigtools [https://github.com/epsy/sigtools]).

Keywords: Opensource project management, metaprogramming, test suite design

2017 PyBay [https://github.com/pybay/pybay]: Implemented crucial parts of the conference website, enhanced mobile compatibility, fixed subtle

CSS bugs.

Keywords: Django, JavaScript, Mobile, CSS, GitHub

2016 arcbus: Real-time bus schedule Web App using data fetched from an external API and presented in a React-based interface.

Keywords: Web API scraping, React, Python

2012 – 2014 tabledresser [https://www.reddit.com/u/tabledresser]: Design and maintainance of an autonomous program ("robot") that converts the Ask

me anything section of an online forum into Question/Answer tables.

Keywords: Tight iterative development, use of REST APIs, aspects of natural language processing

2006 – 2012 Armagetron Advanced [http://www.armagetronad.org/]: Multiple contributions to an opensource game.

Keywords: Online collaboration on a software project, network and video game programming

#### Education

2014 – 2017 Master studies in Software Engineering, minoring in Internet and Telecoms

Efrei, Engineering School of Information and Digital Technologies - Villejuif (Paris), France

Bachelor of Engineering in Computer Sciences and Mathematics Partnership Efrei / Université Paris-Est Marne-La-Vallée (UPEM),

rance

Exchanges with UCC, Cork, Ireland, SJSU, San José, California

2012 – 2014 BSc Computing and IT at The Open University, UK

## Other

Languages: English (Bilingual), French (Bilingual), German

Hobbies: Photography, Hiking, Science-fiction