Yann Kaiser

Senior Software Engineer seeking Front/Back/ML work

Available October 2019, need H-1B transfer

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

Gave internal short talks, participated in several Hackathons.

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

Gradle, Git, Apache Marathon, Mesos, Consul

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

> Improved a user data aggregation MapReduce pipeline (used by 10+ teams internally) and its tests to improve agility, to reduce the complexity of its data formats (internal and external), to reduce errors when altering/adding new fields, and to change how it joined 90B users with the 350B products

they have browsed across all of Criteo's clients.

Significantly reduced tech debt and instability of a product-grouping Spark pipeline.

Worked on client facing APIs for campaign audience management, including interactive audience size estimate based on criteria input by the clients, or

based on anonymized lists of users.

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.

Improved monitoring and Agile practices of each team I worked on.

Keywords: Hadoop MapReduce, Spark, Scala, Grafana, Kibana, Maven, Apache Marathon, Mesos, AngularNG, AngularJS, React, TypeScript,

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

Talks

2017

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

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 such as the Schedule page, enhanced mobile

compatibility, fixed subtle CSS bugs.

Keywords: Django, JavaScript, Mobile, CSS, GitHub

2016 arcbus [https://arcbus.herokuapp.com/?@51.680533/-9.454387]: 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 - 2014tabledresser [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 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

2006 - 2012

2014 - 2017Master 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), France

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

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

Other

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

Hobbies: Photography, Hiking, Science-fiction