

# Nicholas Charriere

*Developer, problem solver, tech lead*

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## WORK EXPERIENCE

### **Software Developer & Tech Lead, Pinterest** - *June/2016 - present*

- [Infra] Led design & implementation on the new rule engine for the protect team (distributed elixir + python system similar to Druid that allows for real time exploration of data as well as rule application, with custom DSL, columnar store, query engine, and frontend for analysts)
- [Core] Worked on the API and it's tooling (python)
- [Product] Supported the new user experience team for any data pipelines, API, and backend needs
- [OSS] Was part of the open source initiative, owning projects, encouraging open source mentality and contributions, and owning a few projects (pymemcache, snappass, elixometer)

### **Senior Software Developer, URX** - *June/2015 - June/2016*

- Worked on the platform team to help design, implement, maintain and document various elements of the URX micro service architecture.
- Feed ingestion ETL and indexing for our knowledge graph from multiple different sources using spark, HBase, Elastic Search, HDFS, Redash
- Helped extend our service discovery library, inspired by curator with clients in go, python and js. Allows services to register themselves and/or discover others
- Developed and maintained a front-end mobile-web analytics SDK to track user interactions with our units

## **Software Engineer, Server team, StarMaker Interactive** - June/2013 - June/2015

- Worked on the whole server stack: API, various backend jobs for data ingestion and analysis, data schema and DB interfaces (GCE, appengine, webapp2)
- Summer intern for Bong working with D3 visualizations, 12 weeks in 2011.

## SIDE PROJECTS

**Avostories**: web-based daily story writer to encourage a creative writing habit

**Open source**: I care deeply about contributing back and try and do so with many different projects (python and elixir)

## EDUCATION

### **2013 Masters in Theoretical Math and Physics, Mines ParisTech - France**

- Diploma, Executive Engineering and Management (top french engineering school), majoring in innovation & entrepreneurship.
- Modules include Math, Physics, economics, and various CS classes with an emphasis on versatile scientific problem solving

### **2010/2011 - Classe Préparatoires aux Grandes Ecoles**

- Intense math, physics and chemistry classes for 2 years in order to prepare the French national competitive exam to enter engineering schools (finished #66 / 14,000 nationally)

## TECHNICAL SKILLS

Distributed systems, data pipelines, python, javascript, elixir, java, SQL technologies, NoSQL technologies