

Lucas Ou-Yang

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University of California, Irvine

B.S. in Computer Science

Facebook Inc. – *Senior Software Engineer, Machine Learning*

January 2019 – Present

- tbd, based out of Facebook's New York City office

Snapchat Inc. – *Senior Software Engineer*

December 2016 – September 20th 2018 (1.7 years)

- Proposed & built one of the first machine learned rankers in the Snapchat app that produced a large (over 10%) gain in core engagement metrics. Followed up with months of feature engineering & modeling
- Led team of 5+ engineers in building Snap's canonical offline ML training dataset for user engagement targeting.
 - Designed, logged, extracted over 100+ features, target labels, session meta-data in under 3 weeks
 - Led team to design ML training infra offline, online inference infra, feature consistency, feature histogram analysis
- Rewrote Snap's product AB test framework to support faster and more flexible experimentation
 - Improved experiment and user mapping logic
 - Results led to large org wide impact and product impact for many teams
- Interviewed tens of candidates, designed infra to support ranking

Facebook Inc. – *Software Engineer*

February 2015 – December 2016 (2 years)

- Tech-lead for Instagram's Search product. This involves engineering and leadership responsibilities to drive user engagement.
 - Define goals, roadmaps, and metrics that teams optimize for and drive engineering efforts against them
 - Use machine learning techniques to boost product engagement (+30% search engagement)
 - Results sourcing, feature engineering, regression vs. lambdamart, penalizing bias, etc.
 - Own a system end-to-end to handle *billions of requests* a day while serving *hundreds of millions of successful searches* per day
 - Drive the cross-functional effort between amazing teams of engineers, PMs, designers, researchers, data scientists, and marketing managers
- See some of the team's amazing work in the news here: <https://goo.gl/TiL73t> and <https://goo.gl/7AbJQL>

Newspaper3K – *OSS founder*

2013-2014 (7 months)

Check it out at <https://github.com/codelucas/newspaper>

- In college I started an open source project that simplifies information retrieval for journalists. It grew to one of the top used python projects on GitHub and has 80+ contributors, 500+ issues/pulls, and community support in 20+ languages. Hundreds of big news orgs such as: CNN, The NYT, Parse.ly, and etc. use this service internally.
- The code has been closed 1,100+ times. See it at <https://github.com/codelucas/newspaper>

Wintria Inc. – *Co-founder* – <http://wintria.com>

2013-2014 (7 months)

- I founded a startup in college that:
 - Raised \$30,000 in seed and VC funding, grew up 4,000+ *daily visitors* within two days of launch. I also built the technology that supports fast (<100 ms) searching of *IM* indexed news articles

Skills

Language agnostic and familiar with most widely used languages and frameworks:

- Python, Java, C++, C, SQL, JavaScript, Bash, Django, Flask, boost, memcache, BigQuery, Hive, etc.

Familiar with the web-stack, HTTP, and web idioms:

- Scaling machines to requests, monitoring CPU, request latency, exceptions, stack-trace logging, etc.

Familiar with account and content ranking using machine learning and information retrieval techniques

- GBDT models, regression, lambdamart, boosted trees, Apache SOLR, Unicorn @ Facebook, TF-IDF, feature engineering, sourcing, training data cleaning, bias penalizing
- I've implemented successful models for many various products now and have an eye for what will be impactful

View my open source library: <https://github.com/codelucas>