# Leo Yu

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## EXPERIENCE

### *Meta* | **Software Engineer**
meta.com
Jul 2020 — Present

Python, PyTorch, Tensorboard, Numpy, Buck, Chef, various internal technologies

- Designed and built distributed ML diagnosis system using internal AirFlow-like platform, which ran on hundreds of training workflows daily, analyzing checkpoints up to 2.3TB in under 10m each
- Wrote tool to configure local IG webserver and Facebook webserver instances to point to each other, streamlining dev workflows for 500+ IG engineers
- Used Chef to plan/provision/maintain a fleet of development servers running both IG and Facebook webservers, reducing setup time each morning by 30m for each IG engineer
- Ran retros (using Retrium and Mural), weekly planning, and prioritization meetings for team to improve communication and collaboration
- Organized biweekly Better Engineering days for the team to address tech debt and work on long-term efforts; organized zoom-based social activities and week-long quarterly offsites for team building and planning; compiled spreadsheet of 100+ offsite activities in the NYC area facilitating offsite planning for all teams with a NY presence

### *Compass /* | **Senior Software Engineer, Tech Infra**
compass.com
Mar 2019 — Mar 2020

Python, NodeJS, Java, Github, AWS, Docker, Docker Compose, Kubernetes, Datadog, Pagerduty, Jenkins, CircleCI, Artifactory, Npm Enterprise

- Served as tech lead and program manager for the rollout of Datadog's Custom Metrics, APM, and Logs to 150+ services across 4 languages and 40 teams
- Led a project team of 4 engineers for the migration of 400+ internal JS packages and 60+ Node services from NPM Enterprise to Artifactory over 2 months
- Served as SPOA (single point of accountability) for the org's use of Artifactory as a cross language package repository, managing the evaluation, acquisition, billing, administration/governance, and org-wide rollout
- Developed and evangelized POC of unit and integration testing workflows for both local development and CI/CD using Docker Compose, increasing the speed, frequency, and reliability of builds
- Continually designed and implemented projects/enhancements/refactors to the org's Python ecosystem to: speed up iteration, decouple different teams' development cycles, untangle the monorepo, and enable the migration to Python 3

### **Software Engineer, DevEx/Tech Infra**
May 2018 — Mar 2019

- Introduced and evangelized Datadog to Compass; integrated APM into all Python and Node services, bringing observability to an entire layer of the stack that had none; initiated and helped close the deal to acquire Datadog as monitoring vendor
- Started Product & Engineering mentorship program, matching 22 engineers and managers with mentors (including C-level executives) in the first cohort. Matched QA engineers with mentors that helped them transition into software development roles
- Wrote interactive tutorial that teaches Docker best practices, reducing engineer onboarding time to Docker from weeks/months to <2 hours
- Wrote automated provisioning system for Kubernetes clusters (built on kops), reducing time to spin up a production-ready cluster from days to <1 hour
- Rewrote Kubernetes deploy system, reducing deploy time 20x and increasing deploy frequency 5x for the org

### *JW Player* | **Software Engineer**
jwplayer.com
Feb 2016 — Apr 2018

Python, Java, Github, AWS, Locust.io, Flask, Swagger/OpenAPI, Celery, MySQL, PostgreSQL, Elasticsearch, Redis, Kafka, Kafka Connect, Docker, Docker Compose, Datadog, PagerDuty, Jenkins, Buildkite

- Refactored and virtualized Recommendations stack using Docker; developed workflow for local development and integration testing using Docker Compose that other teams adopted
- Made major contribution to large scale Recommendations API migration; used log replay tool to ensure that the new stack had 100% feature parity with the old stack
- Wrote extensible functional test framework for Recommendations stack, getting team members to write tests
- Benchmarked and performance tuned Recommendations' data pipeline; migrated stack from EC2 to Kubernetes
- Automated Recommendations team's build/deployment pipeline, going from ad-hoc monthly deploys to continuous deployments multiple times a week with testing and fast rollbacks
- Organized the on call rotation for 20+ engineer across 4 data teams; reorganized Recommendation team's monitors and runbooks

### *Dovetail* | **Associate Software Engineer**
fiserv.com (Acquired in 2017)
Jun 2014 — Feb 2016

Java, Ant, Maven, Mockito, PowerMock, Jenkins

- Helped migrate build tools from Ant to Maven
- Worked on refactoring core framework from rest of the codebase
- Helped develop a framework for testing company's core platform/library in isolation
- Worked on extending functional test framework to support multi-day payments processing simulations
- Routinely wrote unit/integration/functional tests for product code and set up Jenkins automation

## EDUCATION

### **Rutgers University, New Brunswick**
Bachelor of Science - Physics, Minor in Computer Science
Sep 2009 — May 2013

### **KTH - Royal Institute of Technology**
Erasmus Program (study abroad), Physics and Computer Science
Aug 2012 — Jan 2013