Leo Yu

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skills

Python, Flask, Celery, Locust
Docker, Docker Compose, Kubernetes
CI/CD, Jenkins, CircleCI, Buildkite
Monitoring, Datadog, PagerDuty

education

RUTGERS UNIVERSITY - NEW BRUNSWICK
Sept. 2009 - May 2013, New Brunswick, NJ
B.S. in Physics, Minor in Computer Science

KTH ROYAL INSTITUTE OF TECHNOLOGY
Fall 2012, Stockholm, Sweden
Erasmus Study Abroad Program

interests

Fashion Photography, Weightlifting, Travel, Beer, Snowboarding

work experience

SENIOR SOFTWATE ENGINEER - TECH INFRA, Compass
March 2019-Present; New York, NY

- 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 company'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, Compass
May 2018-March 2019; New York, NY

- Introduced and evangelized Datadog to Compass; integrated APM into our Python and Node services, bringing monitoring to an entire layer of our stack that previously had none; initiated and helped close the deal to switch from Solarwinds to Datadog as our monitoring vendor
- Wrote interactive tutorial that teaches Docker and best practices, significantly reducing our engineer onboarding time to Docker from weeks/months to <2 hours
- 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
- Responsible for maintaining the Kubernetes clusters and deployments for our NodeJS services
- Rewrote Kubernetes deploy system, reducing deploy time 20x and increasing deploy frequency 5x across the org
- Wrote automated provisioning system for Kubernetes clusters (built on kops), reducing time to spin up a production-ready cluster from days to <1 hour

SOFTWARE ENGINEER, JW Player
February 2016-April 2018; New York, NY

- 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
- Refactored and virtualized Recommendations stack using Docker; developed workflow for local development and integration testing using Docker Compose that other teams adopted
- Wrote extensible functional test framework for Recommendations stack, getting the rest of the team to write tests
- Benchmarked and performance tuned Recommendations engine's Celery-based data pipeline; migrated stack from EC2 to Kubernetes
- Automated Recommendations team's build/deployment workflow on Jenkins
- Wrote tool that leverages Locust.io to perform distributed load testing via AWS
- Organized the on call rotation for the data org; audited and reorganized Recommendation team's monitors and runbooks
- Helped organize monthly employee art installations and happy hour as part of diversity, inclusion, and company culture initiative

ASSOCIATE SOFTWARE ENGINEER, Dovetail Systems
June 2014-Present; Parsippany, NJ

- Helped migrate build tools from Ant to Maven
- Made major refactors to clean up dependency tree
- Wrote simple shell scripts to automate repetitive development tasks
- Set up Jenkins build/test automation
- Extended existing functional test framework to support multi-day simulations
- Helped develop a framework for testing company's core platform/library in isolation
- Routinely wrote unit/integration/functional tests for product code