

# Ryan Couto

[EMAIL](#) • [GITHUB](#) • [LINKEDIN](#)

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## EXPERIENCE

### Twitter - New York, NY

*Sr Software Engineer (August 2021 - Present)*

*Software Engineer II (October 2017 - August 2021)*

*Software Engineer (August 2016 - October 2017)*

- Developed Aurora Mesos service based submit queue CI for monorepo
- Served as team lead for cross-functional effort to migrate from Pants build tooling to Bazel
- Managed 100k instance fleet of distributed execution workers
- Fully automated quarantining of failing tests & compilations in monorepo, leading to large productivity gain for entire team
- Designed and implemented log parsing & error reporting service, providing greater ease of use for developers using Jenkins & Phabricator
- Contributed heavily to [Bazel-API](#)-compliant remote execution on [Scoot](#) (see <https://docs.bazel.build/versions/master/remote-execution.html>)
- Facilitated large scale refactor of Continuous Integration / Git pipeline
- Maintained CI jobs responsible for ensuring code health of monorepo with >60,000 targets, along with Jenkins infrastructure used for all other repos' CI suites
- Managed large jenkins fleet, including failovers of jobs and executors across masters
- Brought newly created Aurora Mesos distributed execution infrastructure ([Scoot](#)) to fruition, serving production traffic for all monorepo CI tests
- Assisted with takeover, maintenance, and phase-out of brittle and outdated internal distributed infra for CI
- Created automated muxer for transitional distribution of CI jobs between newly developed & legacy CI infra
- Spearheaded metrics collection used to justify full replacement of legacy CI infra

### Sweeten - New York, NY

*Software Developer (August 2015 - August 2016)*

- Increased contractor/homeowner matching efficiency by writing recommendation engine utilizing both content-based and collaborative filtering
- Saved repeated hours of manual QA testing before releases by implementing RSpec/Capybara/Selenium test suite
- Scraped contractors' past project information from NYC DOB database, leading to more robust matching data

### Lawrence Berkeley Laboratory - Berkeley, CA

*Software QA Analyst (August 2012 - August 2013)*

- Worked with developers to test web-based applications and stored procedures
- Created automated UI tests with HP QuickTestPro

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## EDUCATION

**UC Berkeley - Bachelor's in Applied Mathematics: Statistics, 2014** - Berkeley, CA

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## SKILLS

Golang, Python, Git, Distributed Systems, Continuous Integration, Bash, YAML, Jenkins, Aurora/Mesos, Object Oriented Design, Ruby, Rails, JavaScript, HTML, CSS, SQL