

# Kostas Pagratis

Sr. Software Engineer

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## Summary

Highly motivated Software Engineer who thrives on developing software to be used every day. Passionate about improving code through best practices, clean implementation, and test tooling. Proven track record of learning new technologies and adapting to unfamiliar code quickly. A force multiplier and SME on any team by having a strong pair programming and tight collaboration mindset.

## Skills

**Recent** Java, Scala, Quarkus, JUnit, Mockito, Database Integrations, SQL, JavaScript, Python, Distributed Systems, Kafka, Git, REST  
**Past** Rust, AWS, GCP, Unix Scripting, Ant, Maven, C, C++, React, Redux, AngularJS

## Work Experience

### Workday

Boulder, CO

Sr. Software Engineer

Feb. 2023 - Present

- Responsible for vetting and deciding on core technologies to build with. Quickly became established as SME and aided in knowledge transfer among the team.
- Took ownership of the Storage subsystem of new cutting edge platform and added PostgreSQL backend support. This allowed for the removal of support for 2 database technologies spanning 60 classes that were awaiting deprecation, which resulted in a simplified codebase and less cognitive overhead for developers.
- Developed configurable DB testing harnesses resulting in greater reuse and better maintainability.
- Developed a try-based implementation of Exception (Try), that standardized the way error handling is performed system wide. Try improved code quality by surfacing multiple hidden bugs caused by an error prone existing abstraction over Exceptions which was developed without clear guardrails preventing developers from ignoring Exceptions.
- Mentored junior developers in topics such as bug investigation, implementation, and conflict resolution.

### Twitter

Boulder, CO

Sr. Software Engineer

Oct. 2015 - Jan. 2023

- Developed an embedded MySQL testing framework now included in finagle and finatra OSS projects facilitating embedded integration testing for MySQL backed services. Additionally developed internal enhancements to integrate with build and CI systems used at Twitter seamlessly. Drove widespread adoption by migrating users and liaising with teams to prioritize efforts.
- Developed a highly available realtime Kafka based system to inform services of changes to database data for up to date compliance of customer data streams.
- Identified the root cause for periodic test failures in CI as a version mismatch with Mockito. Completed migration of thousands of tests across Twitter Dataproducts to prevent other developers from experiencing this difficult to diagnose bug resulting in a unified look and feel across teams, therefore reducing cognitive overhead of developers.
- Led the design and implementation of API to help customers stay compliant with not only Twitter's data licensing agreements, but also GDPR. This API enabled customers to periodically check, in bulk and asynchronously, whether tweets or users in their datasets needed to be purged.
- Headed a team responsible for migrating hundreds of build scripts from in-house build system to the industry standard Bazel. This was part of a company wide effort to move the tech stack away from bespoke solutions. This migration took 4 months, including fixing and refactoring incompatible code layouts, and was completed on schedule with no regressions.
- Mentored junior developers and interns from new hire to first promotions.

### Flatirons Solutions

Boulder, CO

Technical Lead

May 2008 - Oct. 2015

- Led various teams in implementation, design, team management, and customer delivery tackling custom digital asset management projects across multiple sectors to customers like Disney, Cambridge Assessment, and Boeing.

### Rogue Wave Software

Boulder, CO

Consulting Engineer II

Aug. 2005 - May 2008

- Provided on-site consulting with customers for requirements gathering, design specification, solution installation, testing, and debugging.

## Education

### University of Colorado

Boulder Colorado

B.S. in Computer Science and Engineering

Dec. 2004