

# Allison Mae Villapando

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## Work Experience

**Zwift** Long Beach, CA (Remote)

### Software Engineer | Dec 2022 - Apr 2024

- Implemented RESTful APIs in Java and Kotlin for seamless communication between frontend and backend systems.
- Optimized microservices architecture using Kafka, PostgreSQL, and Kubernetes, improving data processing efficiency.
- Engineered Quarkus libraries to enhance backend operations, boosting system performance.
- Integrated Redis caching for efficient ID retrieval, improving query speed, and overall caching mechanisms.
- Architected migration from a monolithic architecture to dedicated microservices, enhancing scalability.
- Built microservices as Docker containers, ensuring consistency across development and production environments.
- Refactored legacy endpoints, modernizing the codebase for better maintainability.
- Adopted RESTEasy Reactive, improving JWT filtering capabilities.
- Managed software releases, implementing rollback procedures and coordinating with cross-functional teams.
- Utilized Datadog for deployment tracking and performance monitoring to minimize downtime.
- Leveraged JUnit, Cucumber, Mockito, and WireMock frameworks for unit and integration tests, ensuring robustness.

### QA Automation Engineer | Apr 2022 - Dec 2022

- Implemented roadmap to reduce manual testing by 80% through end-to-end automation testing.
- Optimized automated tests, reducing execution time by 50% and improving overall performance.
- Created a comprehensive automated test framework using TestCafe in JavaScript and enhanced test coverage.
- Established a dedicated Jenkins pipeline and developed nightly scripts to enhance continuous integration.
- Facilitated code reviews and contributed to refining testing workflows.
- Mentored interns and QA Analysts through weekly sessions and pair programming.

### Software Engineer in Test | Oct 2021 - Apr 2022

- Developed data-driven automated tests in JavaScript using TestCafe to ensure end-to-end test coverage.
- Led cross-functional planning of comprehensive test scopes across mobile and web applications for rapid deployment.
- Identified and resolved a majority of bugs and defects, significantly enhancing application stability.

### Associate QA Analyst | Apr 2021 - Oct 2021

- Collaborated with web, game, and mobile developers to conduct testing, validate new features, and identify bugs across major browsers and platforms using TestRail and Postman.

### QA Game Tester | Feb 2020 - Apr 2021

- Conducted comprehensive testing of game clients across OS platforms, performing manual, ad-hoc, functional, and non-functional tests to improve user experience.

## Technical Skills

**Languages:** Java, JavaScript, Kotlin, SQL, TypeScript, C++

**Frameworks, Technologies, Practices:** Quarkus, Kafka, Kubernetes, Microservices, Redis, PostgreSQL, Containers, VCS, Project Management, Test Automation, CI/CD

**Testing Frameworks:** JUnit, Cucumber, Mockito, WireMock

**Developer Tools:** Git, Docker, Kubernetes, IntelliJ, Datadog, SonarQube, Postman

## Education

**Bachelor of Science Degree - Computer Science**

California State University - Fullerton

Emphasis: Software Engineer

Aug 2014 - May 2019