



AUTOMATED PR REVIEW WITH AI

REVOLUTIONIZING HOW DEVELOPERS GET
FEEDBACK ON THEIR CODE

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THE PROBLEM

- Developers spend hours reviewing PRs manually.
- Context is often lost across multiple files and commits.
- Lack of consistency and deep understanding in reviews.
- AI can assist – but needs context + speed + convenience.



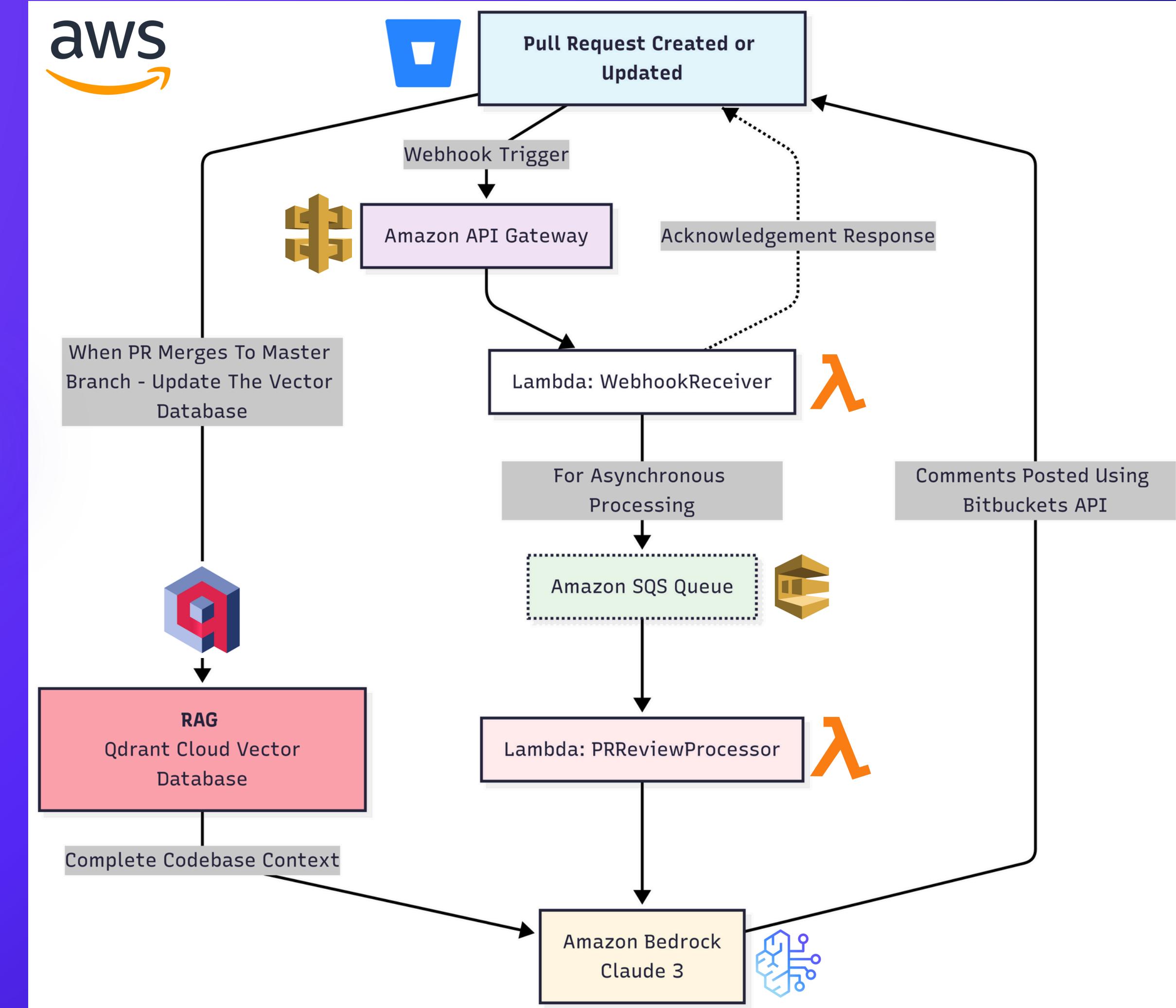
OUR SOLUTION



Code Review!

Streamlines PR reviews by using AI to understand code changes and generate helpful feedback automatically. It directly connects with Bitbucket to provide faster, clearer reviews – saving developers time and effort.

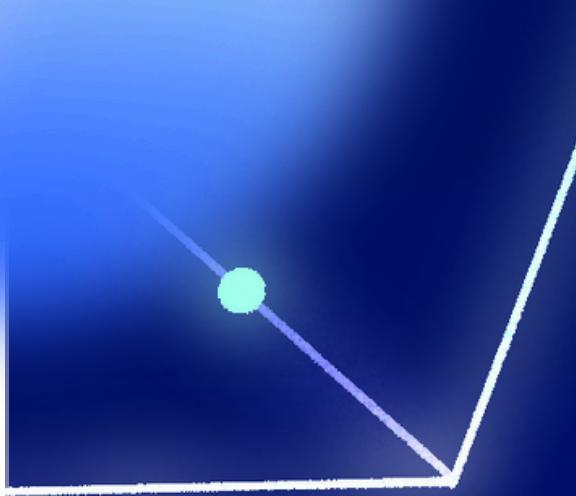
ARCHITECTURE DESIGN





DEVELOPMENT CHALLENGES

- Vague LLM responses needed better prompts and context.
- Slow PR reviews due to cold starts and chained API calls.
- Bitbucket webhooks timed out from long Lambda execution.
- Secure token management required AWS Secrets setup.



Impact: What We Achieved

- Automated code reviews with real, actionable feedback
- Reduces PR review time from hours to seconds
- Raises code quality across the organization
- Lays the foundation for smarter, AI-driven efficiency in our engineering

FUTURE SCOPE

- Fine-tuned LLMs for more accurate and context-aware code reviews.
- Dashboard integration for review insights and developer metrics.
- End-to-end encryption for secure LLM input/output handling.
- Self-healing workflows using step functions for retry and fallback.

THANK YOU!

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