

# AI Code: **slop and Rot**

Addressing the elephant in the pull request. Why bad code isn't a new  
problem, just a new medium.

"AI generated code is bad, because  
AI generates slop and rot."

— Common Developer Sentiment

# Defining the Terms

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## `<Slop />`

Plausible but low-quality code that sneaks past review. It looks correct at a glance but lacks robustness, edge-case handling, or efficiency.

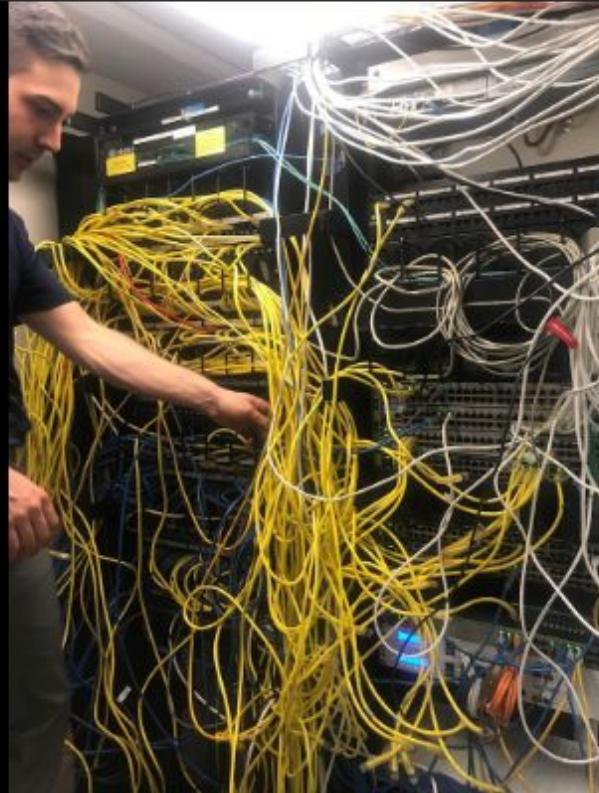
## `<Rot />`

The long-term structural decay caused by accumulating slop. It's the "death by a thousand cuts" that makes a codebase impossible to maintain or refactor.

# The Anatomy of Slop

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- **Superficial Correctness:** It compiles, it runs, but it's fragile.
- **Lack of Context:** AI guesses the intent but misses the broader architectural constraints.
- **Subtle Bugs:** Errors that are hard to spot in a quick diff but crash production under load.
- **Review Fatigue:** Reviewers assume it's right because it looks authoritative.



# The Long-Term Effect: Rot

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When slop accumulates, it calcifies into Rot.

- System rigidity increases; changes become risky.
- Onboarding new developers becomes a nightmare.
- Refactoring is impossible because nobody understands the generated logic.
- The codebase becomes a legacy burden immediately after creation.



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**But doesn't that sound familiar?**

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# Old Problems, New Names

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AI Criticism	Human Equivalent	The Reality
<b>Slop</b>	Cargo Cult Code, Spaghetti Code	Copy-pasting without understanding.
<b>Rot</b>	Technical Debt	Choosing speed over quality.
<b>Hallucinations</b>	"It worked on my machine"	Assumptions vs. Specification.

# We've Been Here Before

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These problems existed long before LLMs.

- > StackOverflow copy-paste driven development.
- > Hacking away without specifications.
- > Skipping code reviews to meet deadlines.
- > Ignoring design patterns for "quick fixes".

Slop and Rot are not AI problems. They are workflow problems.



# The Real Root Cause

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## No Standards

Accepting code—human or AI—withou adherring to a strict style guide or architecture.



## Weak Reviews

Rubber-stamping PRs without actually reading and understanding the logic.



## Zero Spec

Generating code without a clear definition of what needs to be built.

# The Enemy: "Vibe Coding"

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**Vibe Coding** is the nemesis of professional engineering. It represents:

- Non-repeatable chaos
- Unmaintainable output
- Code that "almost" works

We need a process that turns AI into an engineer, not just a chaotic autocomplete.



# The Solution: Mastery

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With advanced techniques and context, AI performs as a **Senior Developer**.

- **Strategic Review:** Shift focus from checking syntax to validating architectural fit.
- **High-Level Specs:** Providing deep context unlocks senior-level, production-ready output.
- **Automated Precision:** Use AI to enforce patterns and standards more rigorously than humans.
- **Orchestration:** We transition from writing code to directing intelligent systems.



## **AI Is The New Standard**

It replaces manual coding with high-level engineering. The bar has been raised.

# Q&A

Let's discuss our  
workflow.

# Image Sources

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<https://www.ashtonsolutions.com/wp-content/uploads/2019/05/CBG-Before-1.jpg>

Source: [www.ashtonsolutions.com](http://www.ashtonsolutions.com)

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