

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

<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

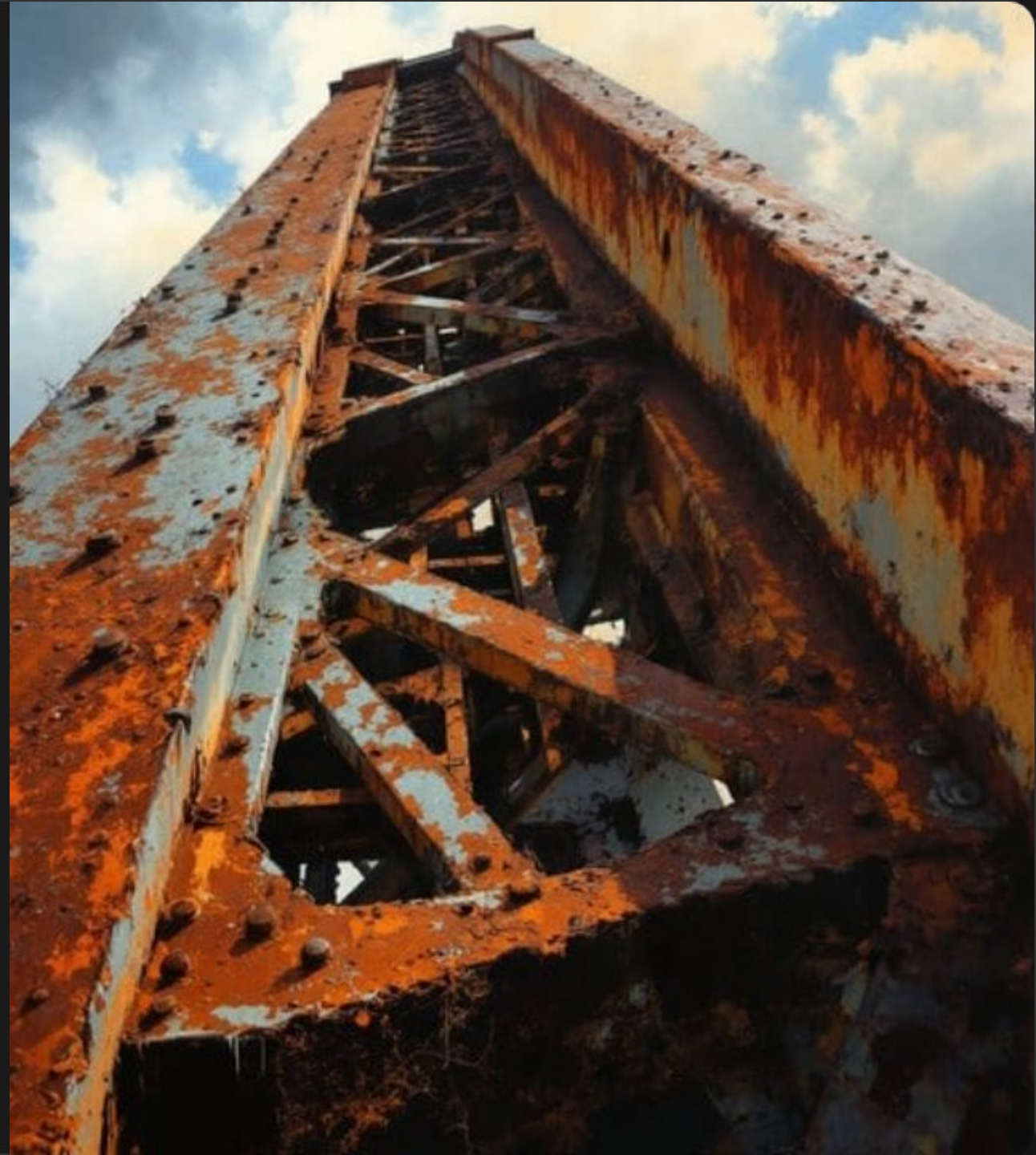
- > **Superficial Correctness:** It compiles, it runs, but it's fragile.
- > **Lack of Context:** AI guesses the intent but misses the broader architectural constraints.
- > **Subtle Bugs:** Errors that are hard to spot in a quick diff but crash production under load.
- > **Review Fatigue:** Reviewers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



The Long-Term Effect: Rot

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.



But doesn't that sound familiar?

Old Problems, New Names

AI Criticism

Human Equivalent

The Reality

Slop

Cargo Cult Code, Spaghetti Code

Copy-pasting without understanding.

Rot

Technical Debt

Choosing speed over quality.

Hallucinations

"It worked on my machine"

Assumptions vs. Specification.

We've Been Here Before

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



No Standards

Accepting code—human or AI—without adhering 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"

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

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.



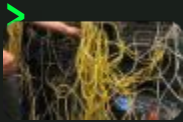
AI Is The New Standard

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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