

# Agentic Software Engineering @ Parloa



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## Pedro Castillo, Staff Engineer

Agent Reliability and Evaluations

- Animal Handling!  
Pythons 🐍, SLOths 🦥, Elephants 🐘 or Dolphins 🐬  
🐙
- Sweep problems under any rug 🧹
- Forage *MangoDBs* 🥭
- Make queries go brrrr! 🚗
- Make all your streams come true 🌄

Valencia, VE — Buenos Aires, AR — Berlin, DE

The leaders of this era will  
provide a personal AI agent  
for every customer



# AI Agent Management Platform

## AI Agent Lifecycle

Customers



CX Platforms

CCaaS

F9 | amazon | CISCO

more...

MESSENGERS

Apple | WhatsApp | Messenger

WEBSITES & APPS

more...

Channels

PHONE

MESSAGING

CHAT

CLICK-TO-CALL

MULTIMODAL



Ecosystem

OTHER AGENTS

AI AGENT

HUMAN

AGENT ASSIST

INTEGRATIONS

salesforce | SAP

servicenow | zendesk

UiPath | VERINT

Microsoft | celonis

INTELLIGENCE

Azure | Google | OpenAI | BYO STT / TTS / LLM

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AI adoption journey

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Lessons against the *slop*

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What's next



# AI adoption journey



# Our Journey

DEC 2024

FEB 2025

APR 2025

MAY 2025

JUL 2025

AUG 2025

OCT 2025

NOV 2025

JAN 2026

TODAY



## Cursor

Cursor, AI code editor, is evaluated and introduced to developers at Parloa.



### Agent Mode

Cursor's Agent Mode gets traction and adoption across engineering teams.



## Accelerator Week CursorMeister

Tech org AI coding training and challenge using Cursor. A data scientist and a product analyst did the fastest successful submissions of a microservice.



## Parloa AI-SDLC

Curated set of .cursorrules and MCPs shared across teams



## Claude Code

Claude Code, the agentic CLI for software development, is adopted by engineering teams at Parloa.



## BugBot

BugBot, the code review bot, is enabled by default in all code repos.



## Parloa Claude Kitchen

Parloa's Claude Code plugin marketplace with curated and experimental plug ins.



## Show me how you cook

Weekly event where developers share their workflows, learnings and challenges with live demos only.



## Accelerator Week From AI pair programming to AI-enabled engineering

Tech org workshop on moving from synchronous AI collaboration to asynchronous AI delegation.



## JarvisOS for PMs

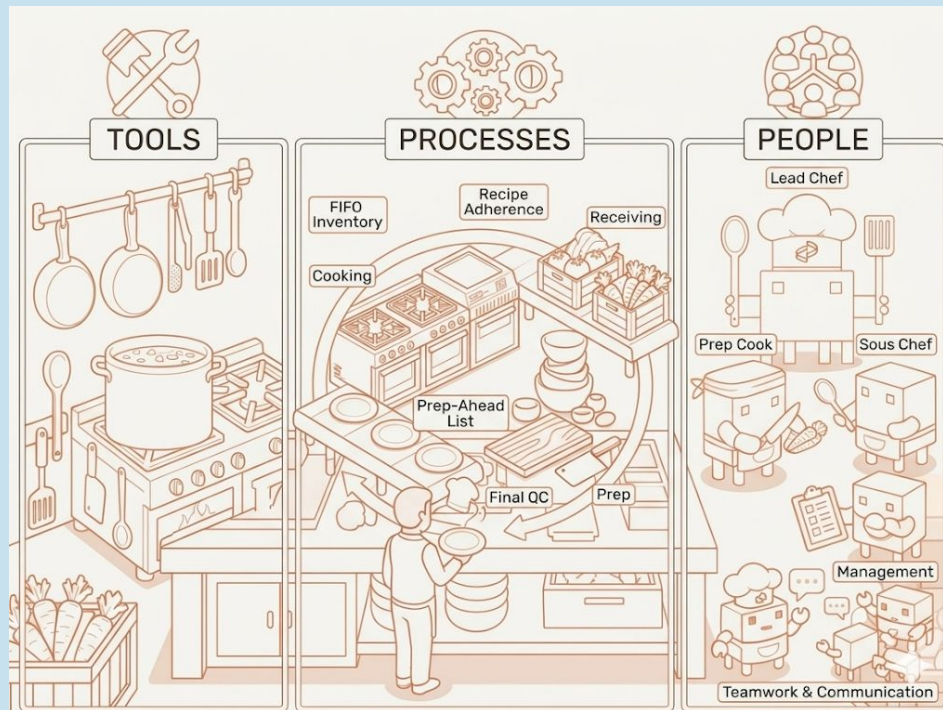
Claude Code skills and settings for Product Managers, focused on early phases of the product development lifecycle: research, discovery and validation.



# A look into Parloa's Kitchen



# Good software is made of...



# Tools



## Cursor

Access to multiple models.  
Best autocomplete – period.  
Agents inside the IDE.



## Claude Code

The most programmable agentic CLI.  
Scriptable: `claude -p`  
Vibrant community.



## The Classics

Familiar tools, durable outcomes.  
Trusted systems of record.  
Collaboration and handoffs.

But we also build  
tools for our tools

# Parloa's Claude Kitchen



## Plug-in ecosystem for Claude Code

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### Give Claude superpowers!

Claude Kitchen contains a set of plug-ins & skills (we call them *recipes* 🍷) to enhance the basic Claude Code experience.

We leverage Claude's plug-in and marketplace features to package and share specialized features to Claude Code.

## From generic to opinionated expert

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### On demand expertise

The recipes is how we encode best practices and how we do things ***the Parloa way.***

It gives Claude our opinions and reasons to favor some patterns over others.

## Actionable guidelines

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### Guidelines without headaches!

It is typically hard to enforce and review the adherence to Parloa's guidelines.

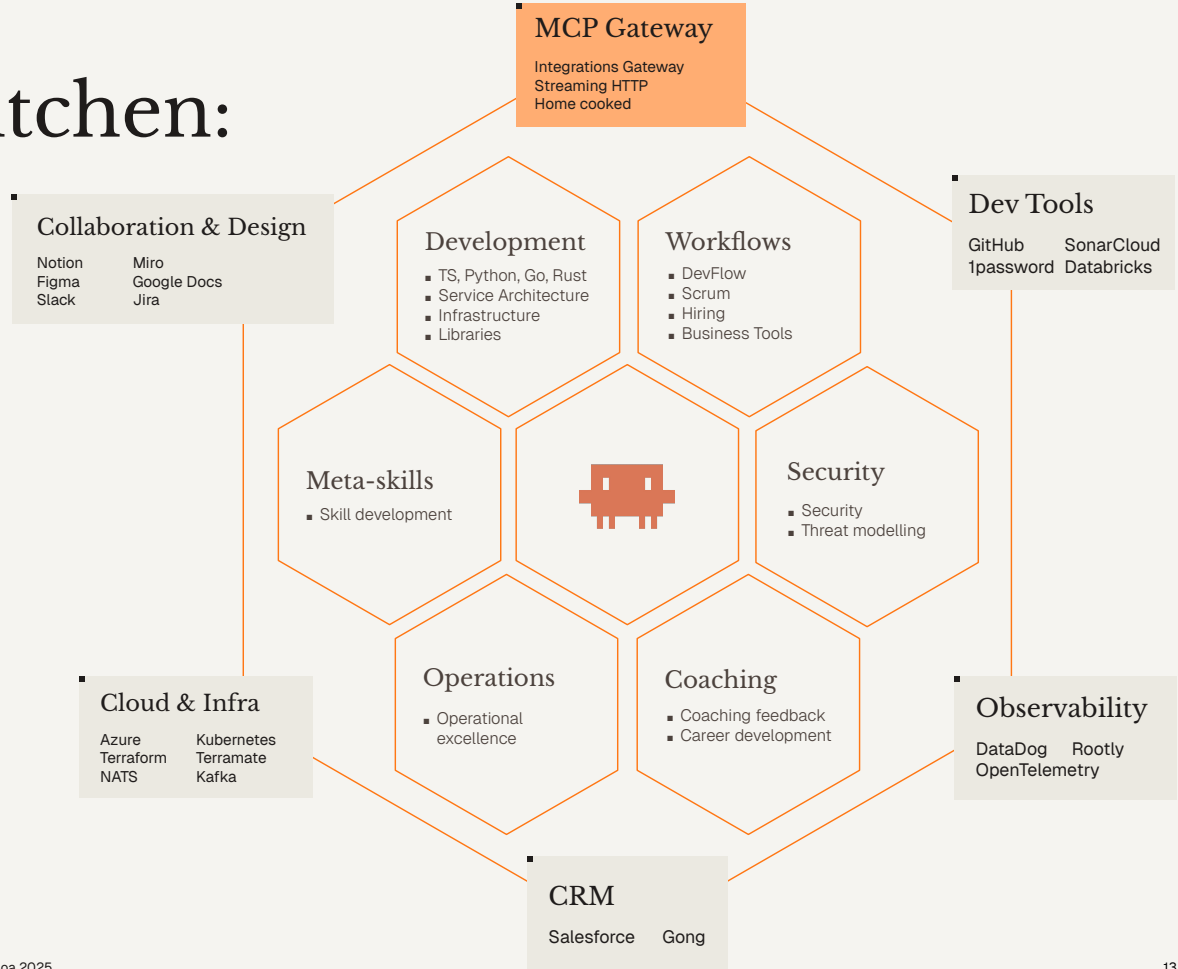
Now we can enhance Claude to always remember them and use them whenever needed, making our guidelines truly actionable.

# Parloa's Claude Kitchen: Architecture



## Overview

- 21 Plug-ins
- 67 Skills
- 500+ Tools
- Skill simulation and evaluation
- Verification steps



# Processes



## Prototype

Prove the concept.  
*Could this work?*



## Plan

Choose the path.  
*How will we do it?*



## Implement

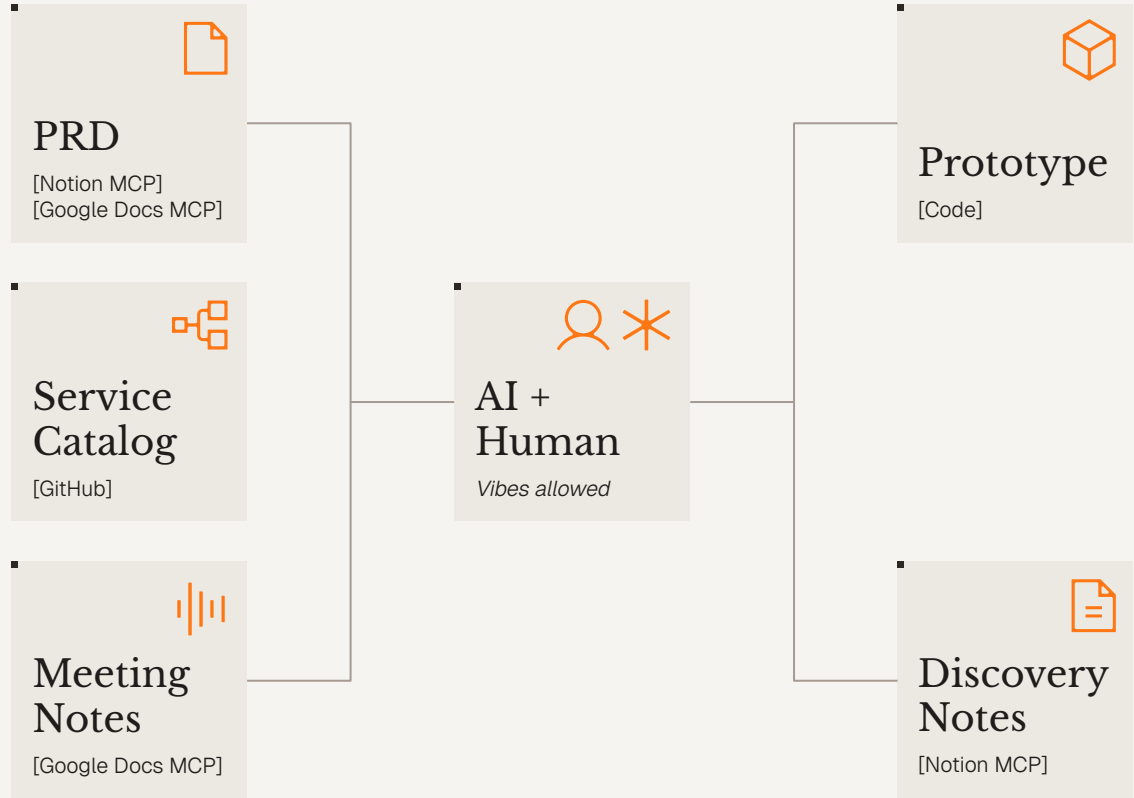
Deliver the value.  
*Did we make it real?*



## Maintain

Improve and sustain.  
*How do we keep it good?*

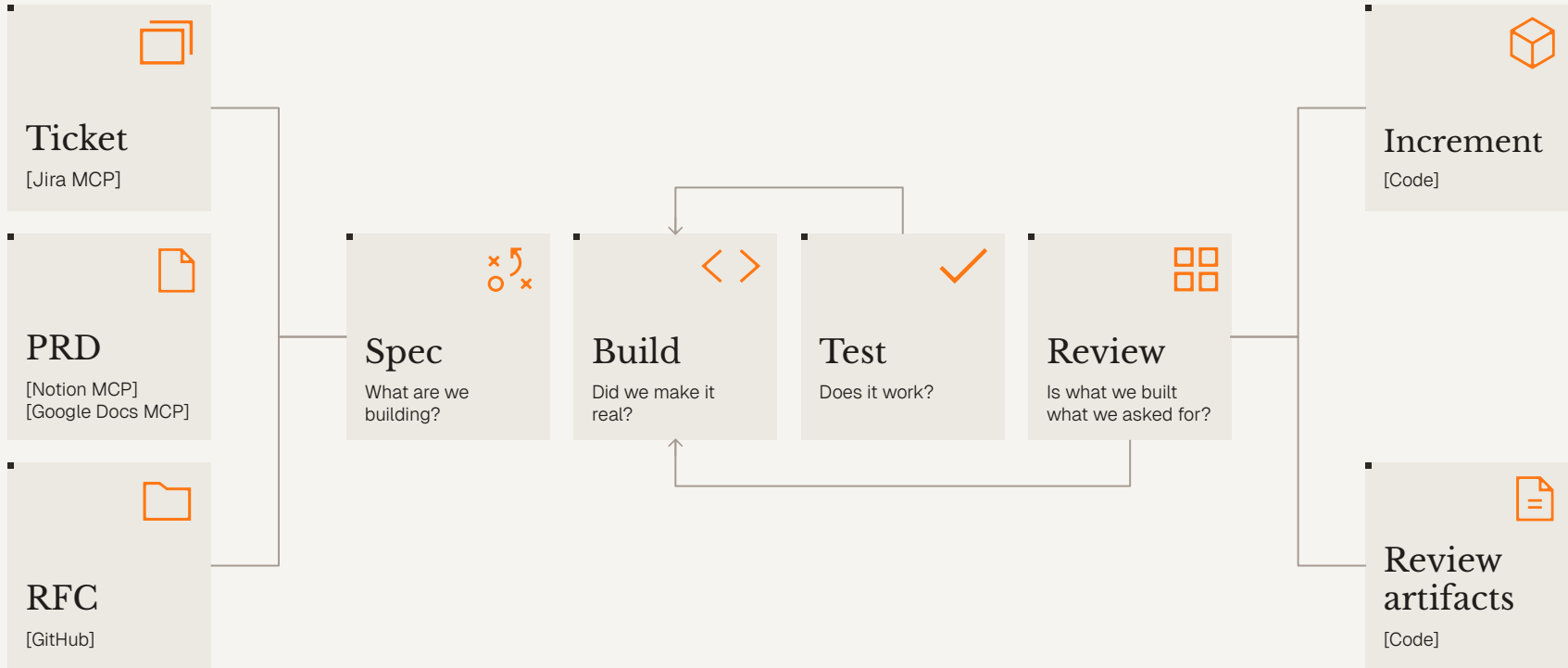
# Processes: Prototype



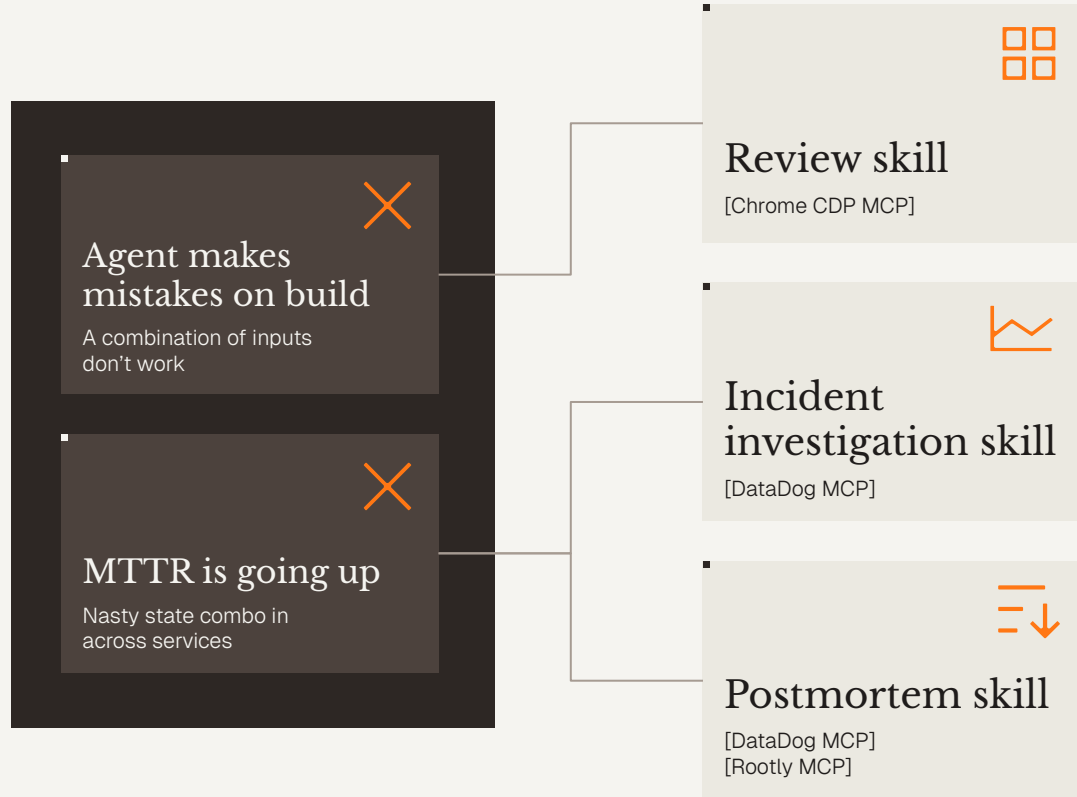
# Processes: Plan



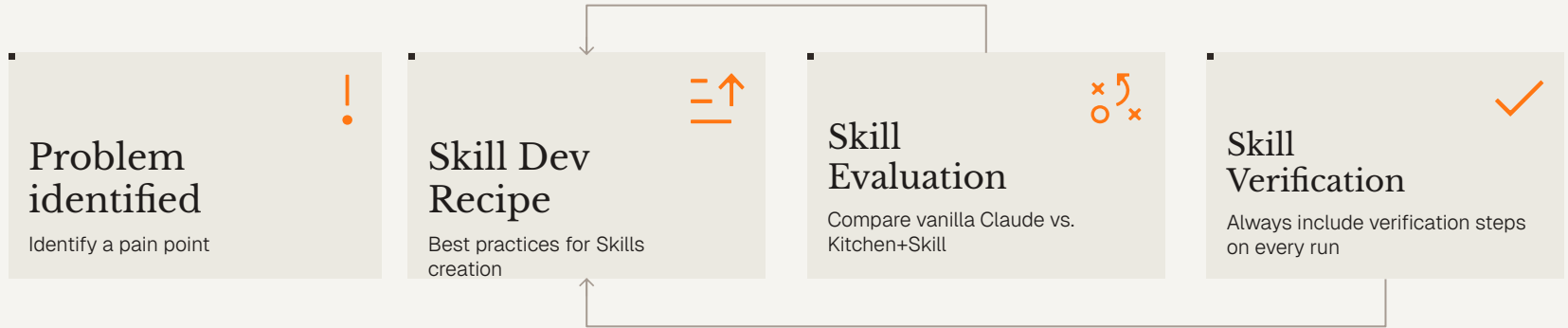
# Processes: Implement



# Processes: Maintain



# Processes: Skill Development



# People



## Mindset

Product-minded architects

*"We need to become product-minded architects managing the production of code"*



## Bottlenecks

Time and effort to Cognitive load

*Everything is changing fast. Work intensifies managing parallel workstreams. Work smarter, not harder.*



## Collaboration

Pair programming to Pair conceptualizing

*Now we all need to learn to collaborate with a new stakeholder: agents.*



## Learning

New tools, new Skills

*AI Skills require experimentation in a encouraging and fun environment.*

# People: Testimonies



Every week, I use CC to check my interview from calendar and write all the prep docs.

Principal Engineer,  
Hiring Plugin



Others got surprised when they got a Slack message for PR review while I was presenting in a meeting.

Staff Engineer



Now we can focus on improvements and worry less about preparing ceremonies.

Engineering Manager,  
Scrum Plugin



Instead of refactoring, I rewrote the whole library keeping the API and tests, now runs faster with 90% code reduction.

Senior Engineer



I made a FinOps agent to retrieve, sort and upload invoices, it save me hours.

VP of Engineering

# Lessons against the *slop*

# Lesson #1: Empower experimentation

## Interesting quote: devs should experiment with GenAI

From [53:30](#):

Gergely: "I wonder if we're going back to discovering things that we you were popularizing in the 2000s."

Kent: "People should be experimenting. Try all the things, because we just don't know."

**The whole landscape of what's 'cheap' and what's 'expensive' has all just shifted.** Things that we didn't do because we assumed they were going to be expensive or hard just got ridiculously cheap. Like, what would you do today if cars were suddenly free? Okay, things are going to be different, but what are the second and third-order effects? Nobody can predict that! So we just have to be trying stuff."

[Kent Beck, The Pragmatic Engineer, June, 6th 2025](#)



## Provide space and tools to learn

Agentic AI requires practice, but once you pass the initial resistance, it becomes fun and rewarding.

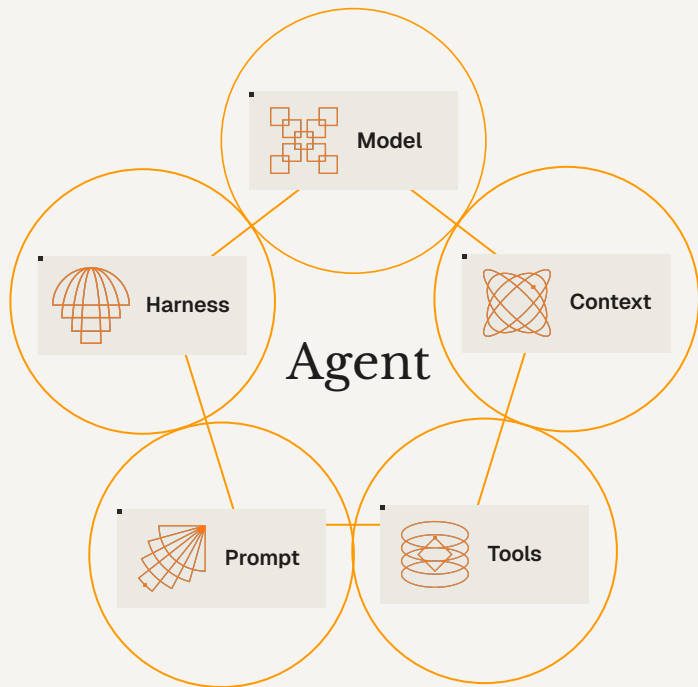


## Develop your intuition

Instead of saying "AI can't do that", give it a try.  
**Pay attention to what works, learn from what doesn't.**

Take note of what doesn't work and use it to judge the next model.

# Lesson #2: Master the primitives



## Consider your agent's perspective

Your agent is brilliant but amnesic. It is ephemeral, it has no memories. If you want your agent to perform like you, it needs your perspective.

On every prompt, start asking yourself:

***With my agent's model, context, prompt, tool and harness, is it possible to safely complete the task I've given it?***



## Study the harness, tinker like a dev

We are getting more and more programmable AI tools.

Explore features, see how they compose, create automations.

Simply speaking, Agents are CLI tools, use them in similar places.

# Lesson #3: Service templates and tooling



## Standardize structure and patterns

Agents have the tendency to replicate what already exists.

Create strong templates with code organization and architectural patterns.



## Guardrails: local and CI

Be strict at the beginning and offer a solid foundation, then watch the codebase go in auto-pilot.

Include static analysis, security and quality tools.



## DevX + AX

Agents are your new users. Invest in Agent Experience (AX). There is a good overlap between DevX and AX.

Provide safe access to the same tools.

# Lesson #4: Feedback loops



## Close the loop

Create closed-loop systems where agents can validate their work. This is the single most leverage thing you can do.

Use the pattern:  
Request → Validate → Resolve



## Focus on workflows

We all want the super agent that can do it all with minimal input. We know that it doesn't exist.

As engineers, we operate one step at a time, each step requires different information and a different approach. Encode that for your agents.



## Design the environment

Software discipline has shifted **from writing code to creating the scaffold that supports it.**

Our core challenge is now designing the environments and feedback loops that enable agents to build complex and reliable systems.

# Lesson #5: Code reviews need to change

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A good code review  
requires attention and time  
– You have neither.

Staff Engineer



## Spec review

Review the spec, then the diff.

Shift from line-by-line reviews  
to stronger checks and clearer  
intent.



## Proof review

Remember the Review step:  
Is what we built what we asked  
for?

Make the agent prove it!



## Review bots

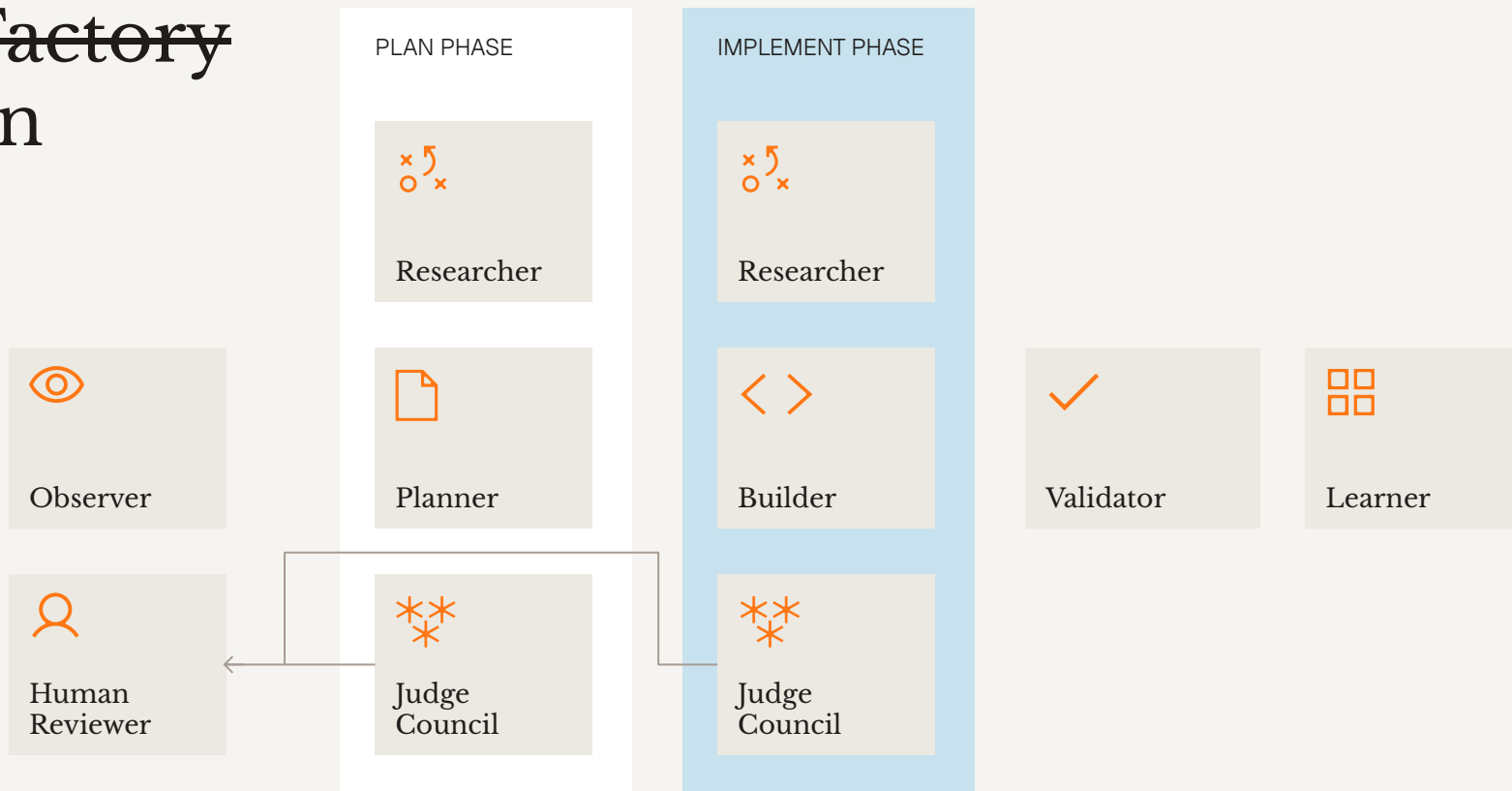
Bots can focus on line-by-line  
reviews.

They enforce guidelines, policies,  
security and classify risk.

# What's next



# Dark ~~Factory~~ Kitchen



# We are hiring!



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Come and build with us!

[parloa.com/careers](https://parloa.com/careers)

# Any questions?

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Are you ready to build meaningful relationships with your customers?

