

ONLINE SESSION

Supercharging Agile Professionals with AI:

A Roadmap to Greater Productivity and Skill Growth



> Andrew Park

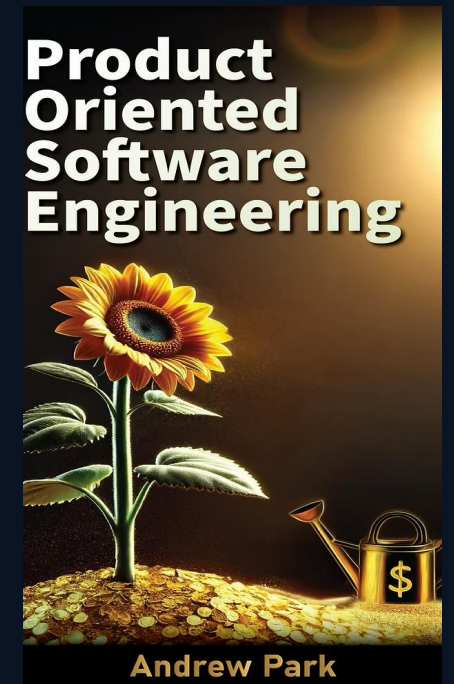
AGILE
> **TECH**
TALKS

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- Founder of Edensoft Labs consulting
- Active collaborator with Agile Alliance’s “Reimagining Agile” initiative headed up by David Luke (<https://www.reimaginingagile.com>)
- Conversations with 50+ CEOs in last 18 months.
- Interviews with 43+ Product Managers.
 - *Disney, Amazon, Capital One, Meta, Freddie Mac, Toyota, Dell Technologies, Autodesk, Lucid, Ford Pro, Elite Technology, Product Culture, Continuous Software,, Practical Agility, Bloomfilter, & more.*
- Upcoming book “Product Oriented Software Engineering” (<https://www.edensoftlabs.com/book>)



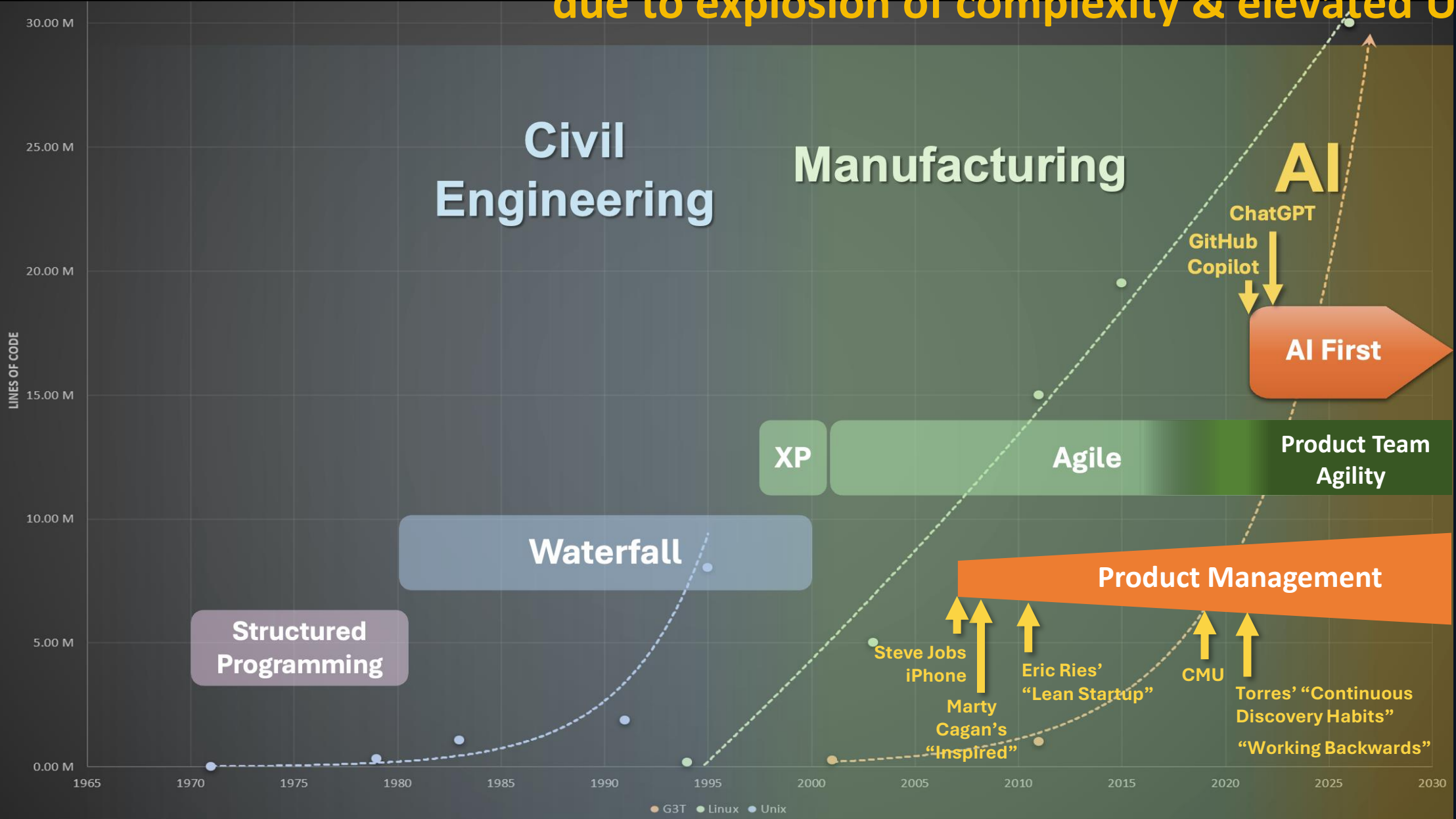
- Experienced Product Manager, Design Leader & Engineering Leader at G3T.
- Spearheaded the adoption of ML/AI into my teams & products during last decade.
 - ML and/or AI in most of our products
 - Self-hosted open-source Gen AI (open-source LLMs)
 - We also use lots of vendor AI tools extensively
- Avid proponent of every staff member aggressively using Gen AI all day, every day.

Software Developers must evolve into Software Composers

	Software Developer 	Software Composer 
Discover Requirements		M
Plan		M
Top-Level Design	S	XL
Detailed Designs	S	XL
Implementation	XL	S
Unit Testing	XL	S
Integration & System Testing	L	M
Product Release	M	S
Release Retrospective	S	S
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Software Delivery is undergoing evolutionary changes due to explosion of complexity & elevated UX





Future of Agile: “Product Team Agility” key strategy toward achieving Business Agility

- Companies seeking **agility at the product team level** to adapt to changing priorities.
- CEOs want to launch whole new products more often.
- Product lifespans are shorter.
- Leading companies have already shifted to frameworks, practices, and tools that provide more business agility than Agile & Scrum.



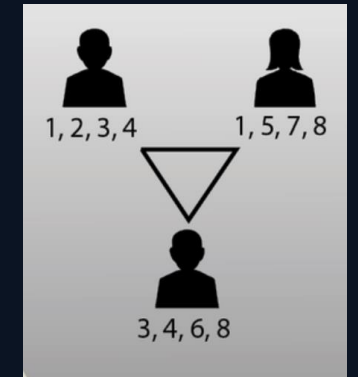
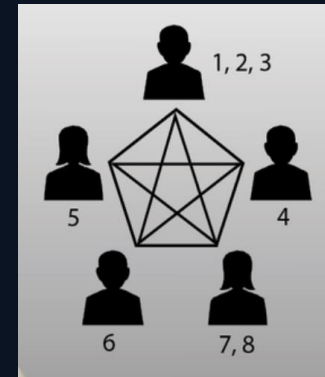
Product Team Agility: The Rules Are Changing – Ensure You're Part of the Future

Observations from speaking to lots of CEOs and Product Managers

1. Evolving Team Structures: Doing more with less
2. Cross-Functional Performers Replacing Rigid Roles

My advice to you based on industry trends:

1. Ally and align yourself with Product and Sales
2. Focus on Business Outcomes, Not Metrics
3. Leverage AI to Amplify Your Impact



Trend: Widely skilled cross-functional performers are replacing rigid roles.

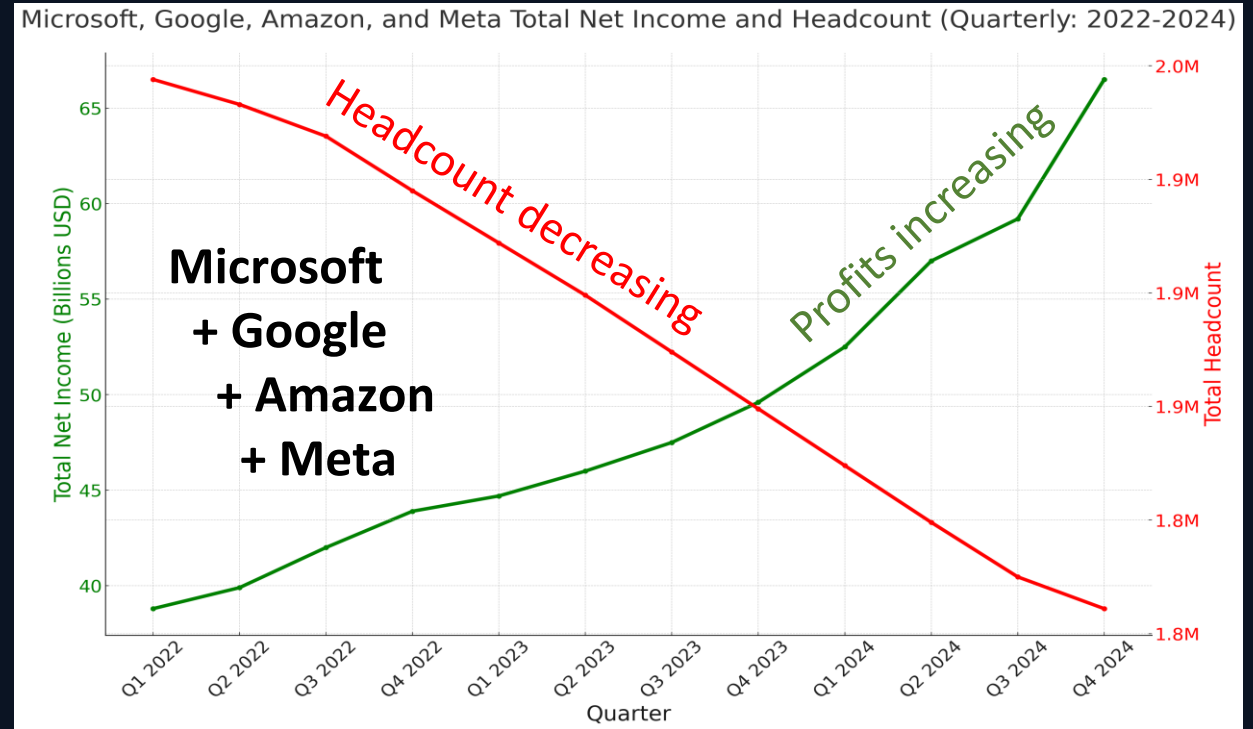
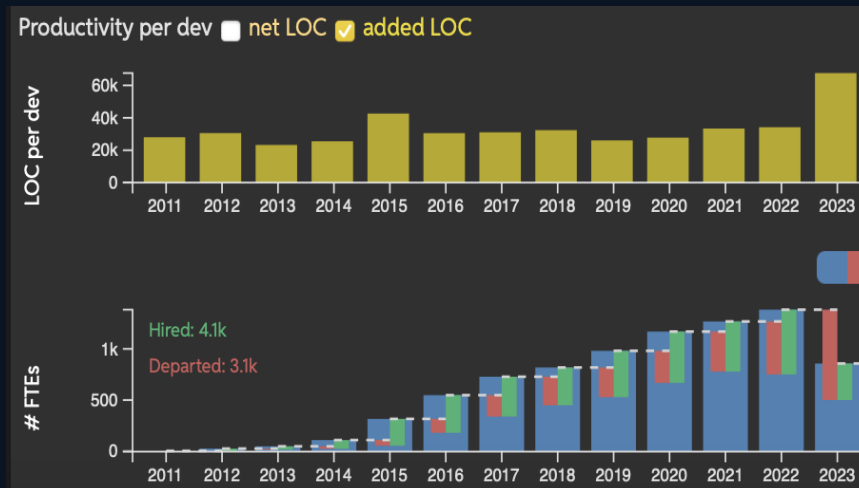
Part 1: Gen AI impact: Good news and bad news.

Part 2: Gen AI strengths and limitations.

Part 3: AI tools to streamline your workflows and amplify your talent.

Part 1: Gen AI impact: Good news and bad news.

The bad news: Gen AI is displacing jobs



Our developer productivity analysis of 420 companies, 17B LOC, 820k FTEs reveals Gen AI adopters experience:

1. Significant increase in developer productivity
2. Decrease in headcount via layoffs
3. Rising profits due to greater financial efficiencies

January 2025 Gen AI Reality:

- Gen AI is very effective for performing many tasks, but not for displacing entire jobs.
- Gen AI productivity boosts is driving tech layoffs due to need for less humans to get the work done.
 - *Our analysis of 420 companies and 830,000 developers reveals that >80% lag in Gen AI adoption and proficiency.*
- Mastering Gen AI is key to current and future employability.

The good news: Gen AI provides unprecedented opportunity to scale your human talent



Horizontal amplification:
Amplified productivity



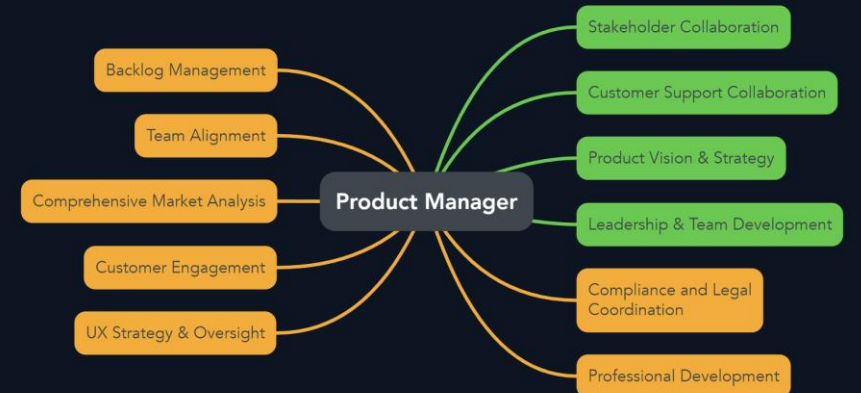
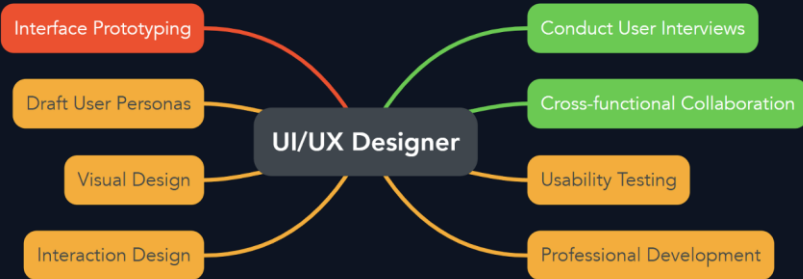
Vertical amplification:
Bridge novice-expert gap



Learning new skills:
World's recorded knowledge at your fingertips

Generative AI Impacts on Agile Professionals:

1. Greater productivity!!! (*but driving layoffs*)
2. Reduced barrier to entry for all roles



Key Insight: Since Gen AI consumes and generates text, audio, images, and video, it is impacting most computer screen-based tasks done by humans.

Part 2: Gen AI strengths and limitations.

- Gen AI excels at handling tasks, not entire jobs.
- Current limitations of Gen AI
 1. Limited Context Windows
 2. Lack of Real-World Understanding
 3. Task specialization
 4. Decision complexity
 5. Dependence on human validation & iteration

Gen AI product	Context Window (# tokens)		Max # words	Cost per mega token	Task complexity
GPT-3.5	4k	5k	\$1.50	S	
GPT-4 Standard	8k	11k	\$30.00	L	
Gemini 1.5 Flash	32k	42k	\$0.02	XS	
GPT-4 Turbo	128k	170k	\$30.00	L	
Claude 3 Haiku	200k	266k	\$0.25	M	
Claude 3 Sonnet	200k	266k	\$3.00	L	
Claude 2.1	200k	266k	\$8.00	L	
Claude 3 Opus	200k	266k	\$15.00	XXL	
Gemini 1.5 Pro	2M	2.6M	\$0.31	XL	

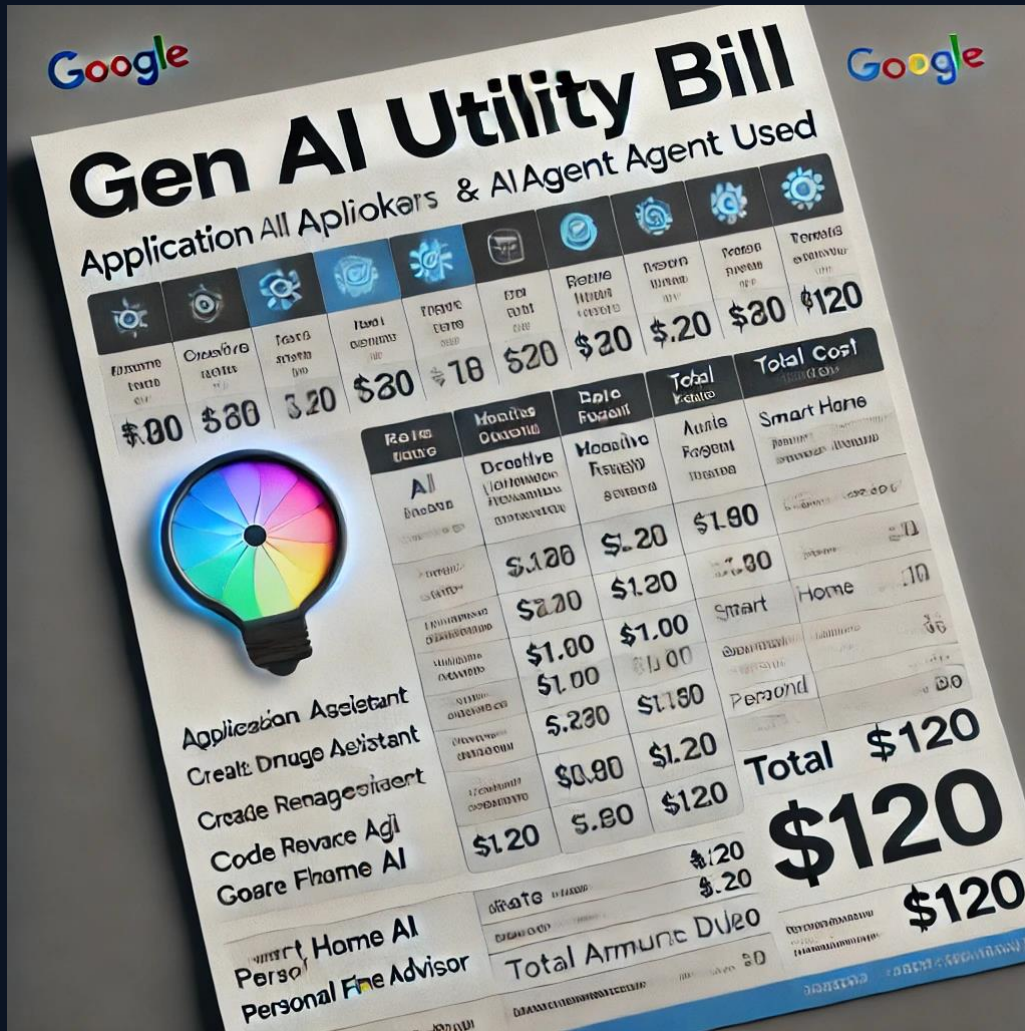
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The keyboard associated with the GenAI horror stories you've read.



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- **GPT-4 Turbo** – Reasonable for code generation and mid-level code reviews but sparse unit test generation.
- **Claude 3 Opus** – Stronger reasoning for complex code reviews, system architecture analysis, and generating more complete unit tests.
- **Gemini 1.5 Pro** – Use for large codebase analysis, comprehensive architectural feedback, and broad unit test coverage.

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- **Claude 3 Sonnet** – Good for design feedback, UX guidelines, and creative prompts.
- **Claude 3 Opus** – Suitable for design system critiques and multi-product design reviews.
- **Gemini 1.5 Pro** – Best for system-wide design audits and design pattern analysis.

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- **GPT-4 Turbo** – Writing detailed feature breakdowns and acceptance criteria.
- **Claude 3 Opus** – Strategic planning across product portfolios & KPI reporting.
- **Gemini 1.5 Pro** – Strategic alignment, long-term planning, and market analysis.

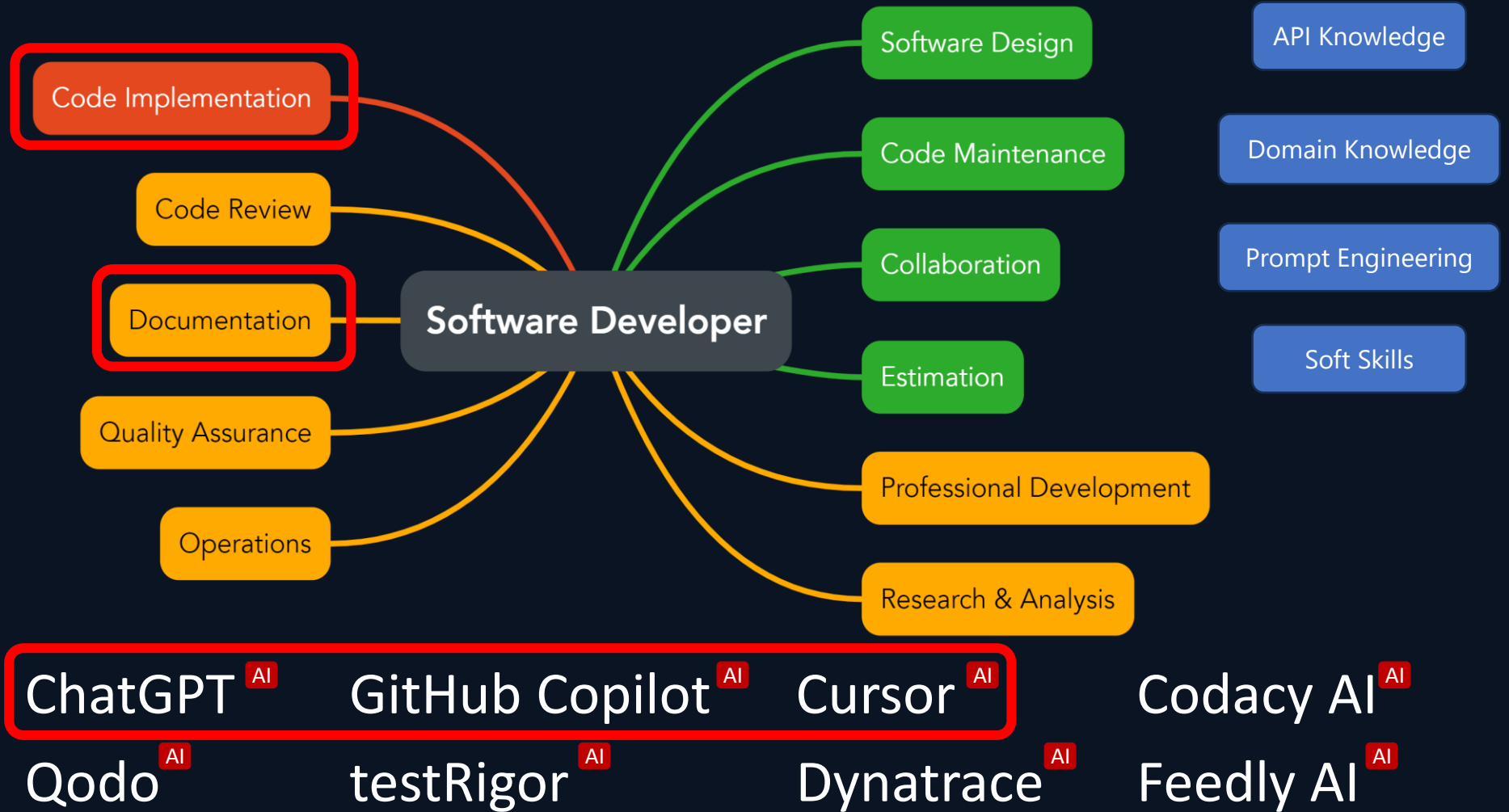
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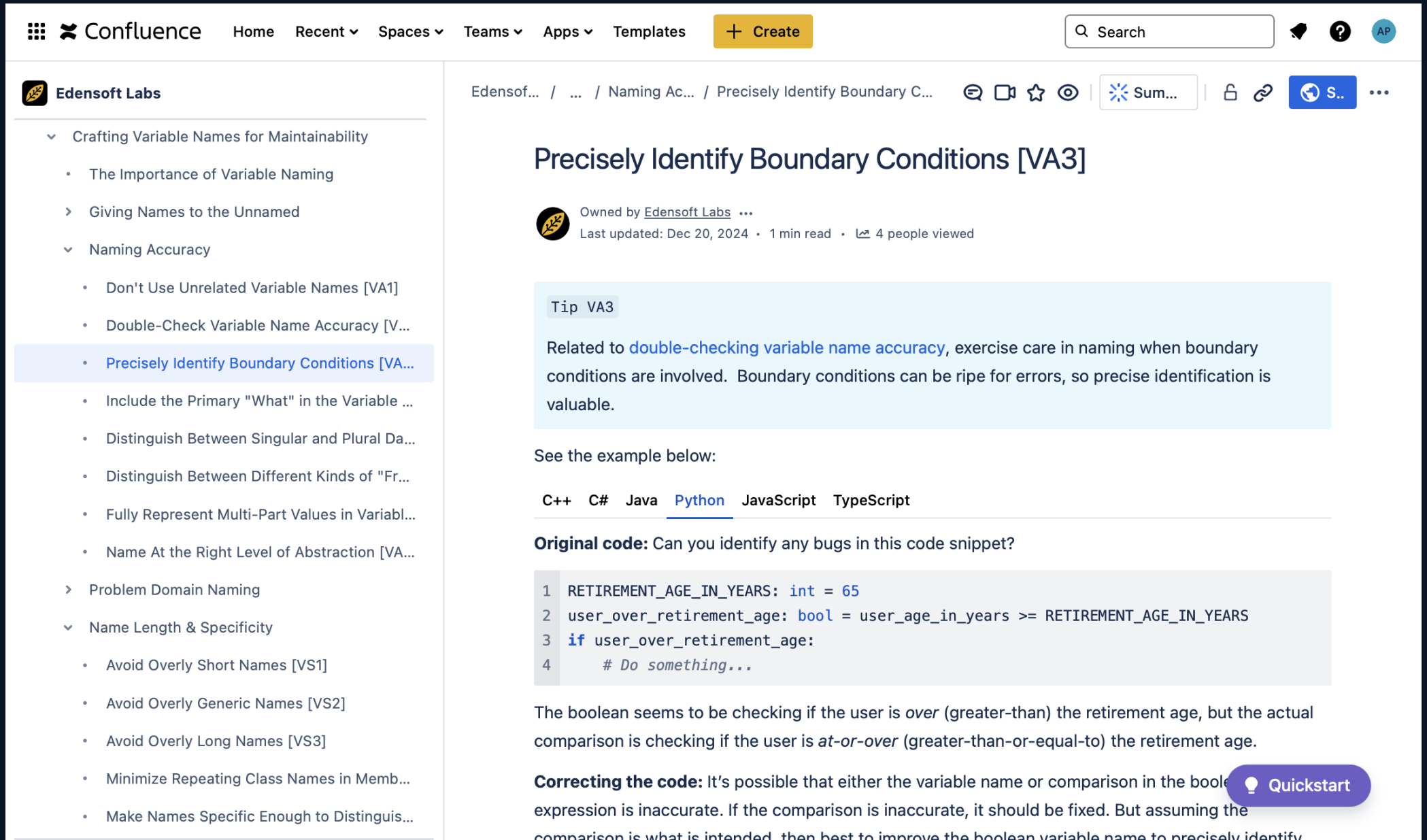
- **GPT-4 Turbo** – Sprint reporting, retrospective automation, and process docs.
- **Claude 3 Opus** –SAFe PI planning, advanced dependency management.
- **Gemini 1.5 Pro** – Best for large-scale team dependency management and reporting.

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Part 3: AI tools to streamline your workflows and amplify your talent.

	Software Developer	Software Composer
Discover Requirements		M
Plan		M
Top-Level Design	S	XL
Detailed Designs	S	XL
Implementation	XL	S
Unit Testing	XL	S
Integration & System Testing	L	M
Product Release	M	S
Release Retrospective	S	S
Operations		
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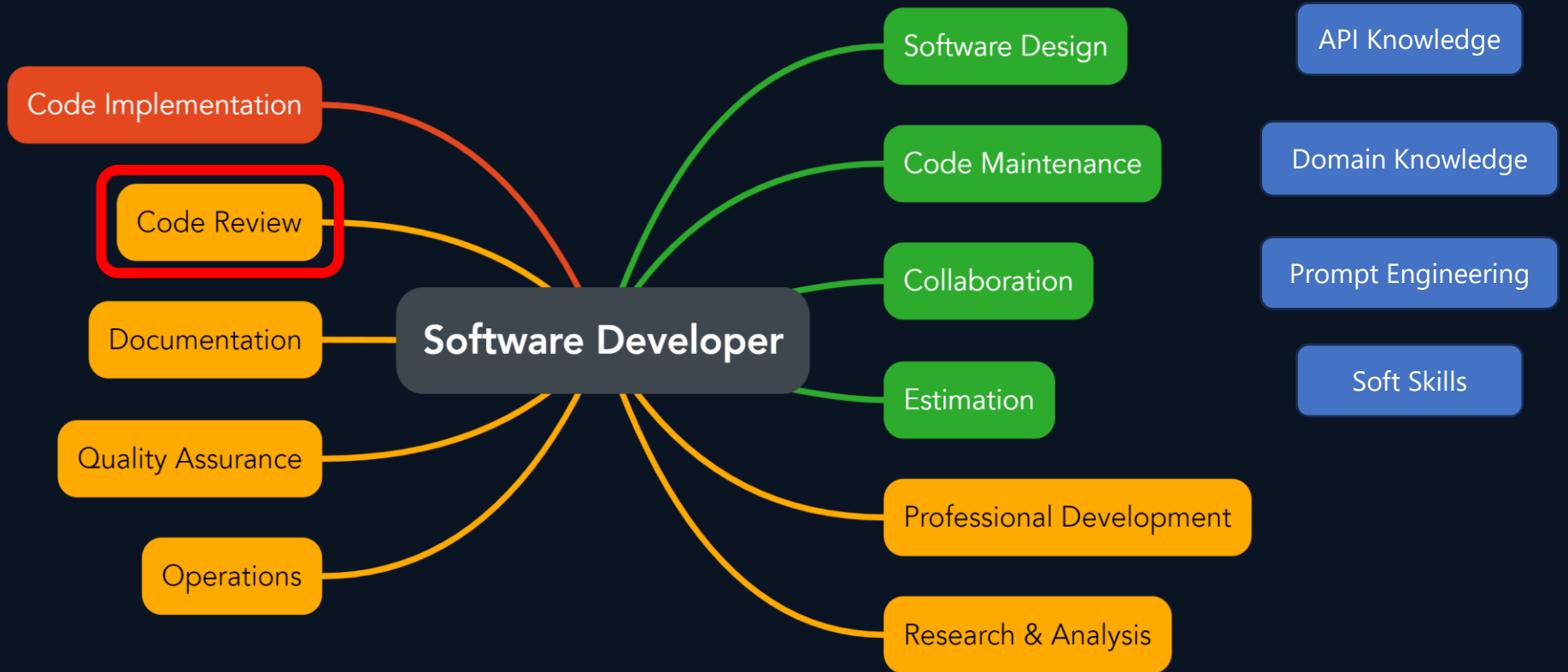
The screenshot shows a Confluence page within the Edensoft Labs space. The page title is "Precisely Identify Boundary Conditions [VA3]". It is owned by Edensoft Labs and was last updated on Dec 20, 2024. The page content includes a "Tip VA3" section with a light blue background, stating that related to "double-checking variable name accuracy", exercise care in naming when boundary conditions are involved. Below this, there is a section for "Original code" with a code snippet in Python. The code snippet is as follows:

```
1 RETIREMENT_AGE_IN_YEARS: int = 65
2 user_over_retirement_age: bool = user_age_in_years >= RETIREMENT_AGE_IN_YEARS
3 if user_over_retirement_age:
4     # Do something...
```

The text below the code explains that the boolean seems to be checking if the user is *over* (greater-than) the retirement age, but the actual comparison is checking if the user is *at-or-over* (greater-than-or-equal-to) the retirement age. A "Correcting the code" section follows, stating that it's possible that either the variable name or comparison in the boolean expression is inaccurate. If the comparison is inaccurate, it should be fixed. But assuming the comparison is what is intended, then best to improve the boolean variable name to precisely identify

The left sidebar shows a navigation menu with categories like "Crafting Variable Names for Maintainability", "Naming Accuracy", and "Name Length & Specificity". The "Naming Accuracy" category is expanded, showing the current page as the selected item.

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ChatGPT^{AI}

GitHub Copilot^{AI}

Cursor^{AI}

Codacy AI^{AI}

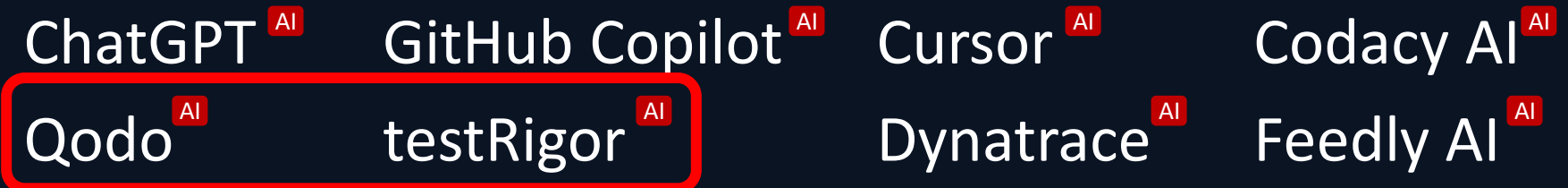
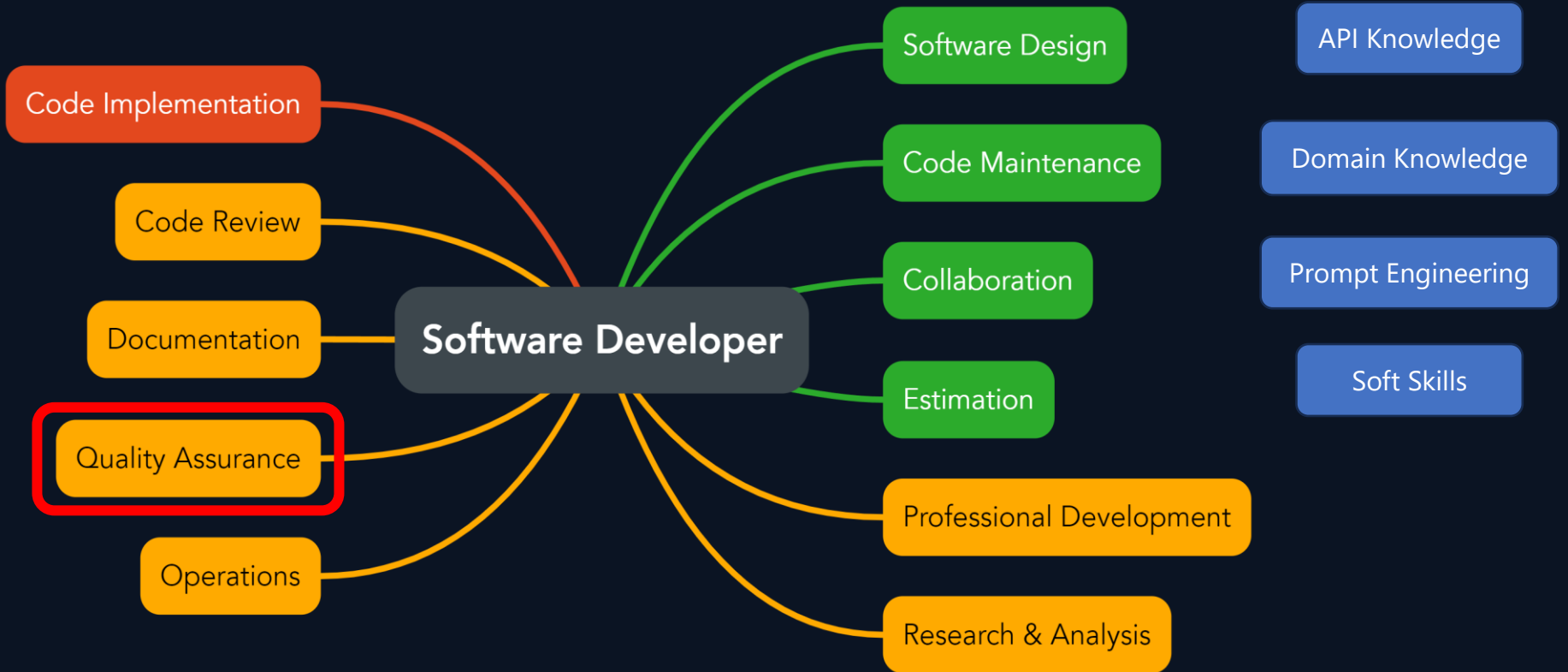
Qodo^{AI}

testRigor^{AI}

Dynatrace^{AI}

Feedly AI^{AI}

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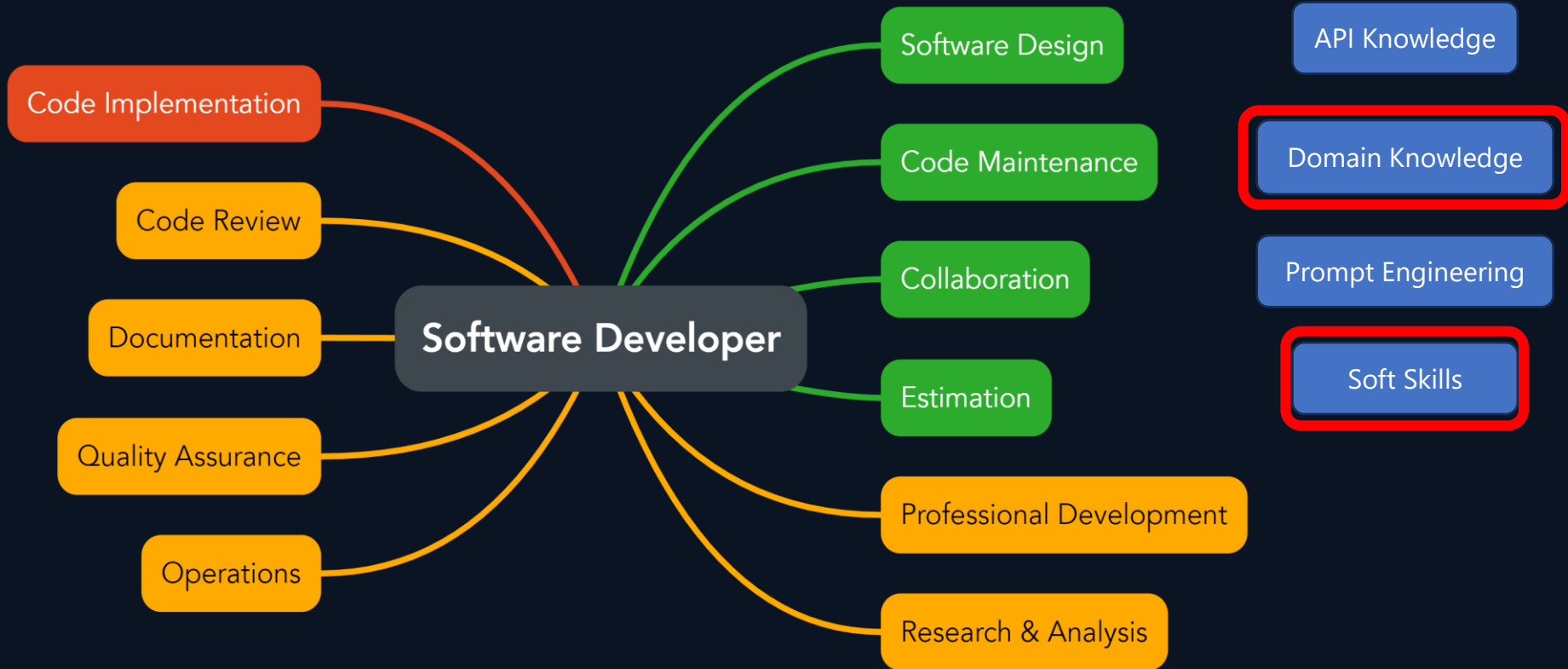
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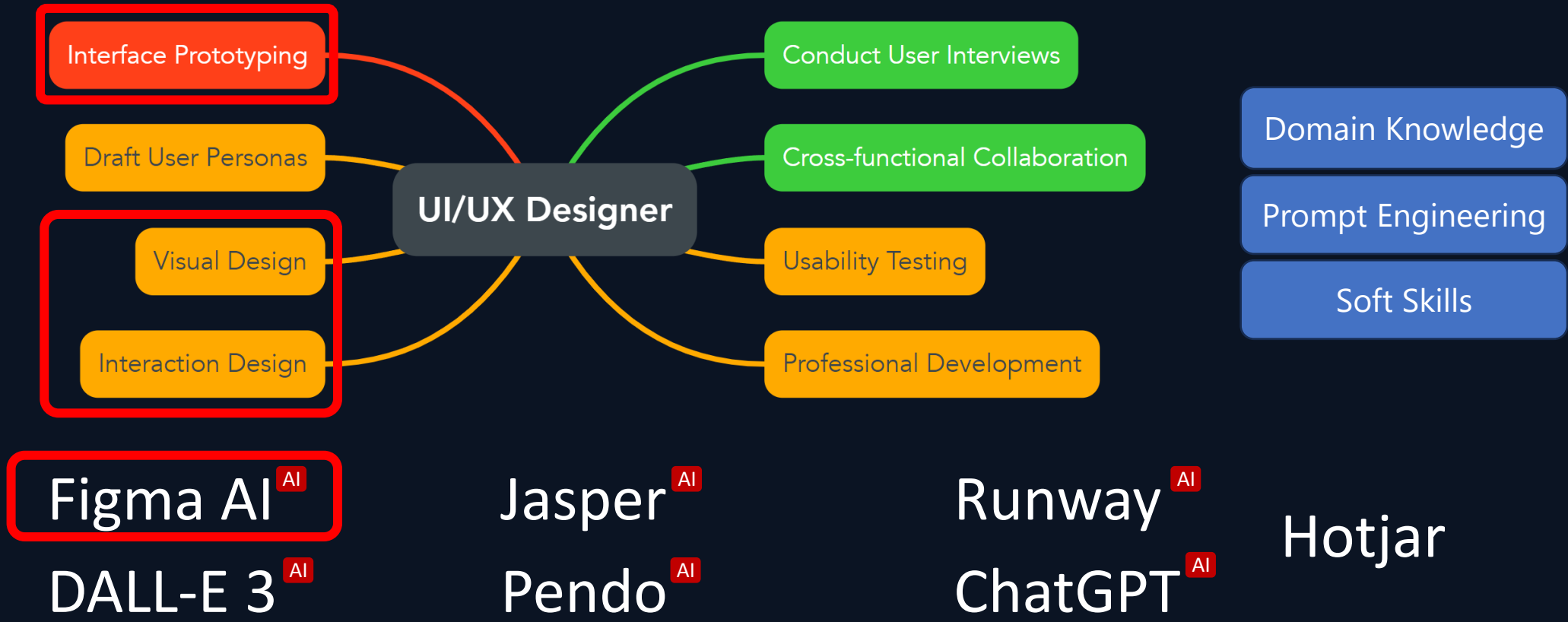
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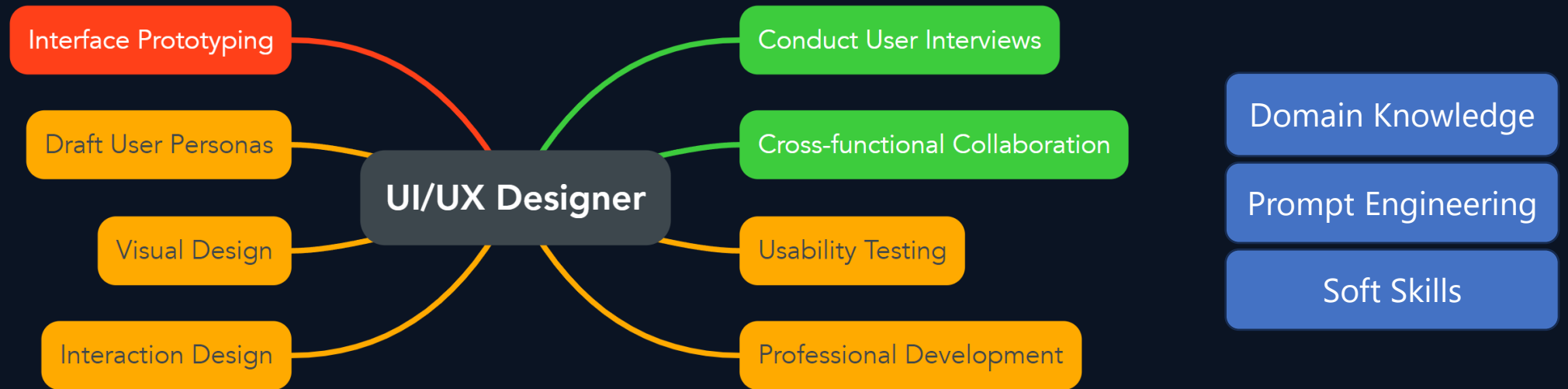
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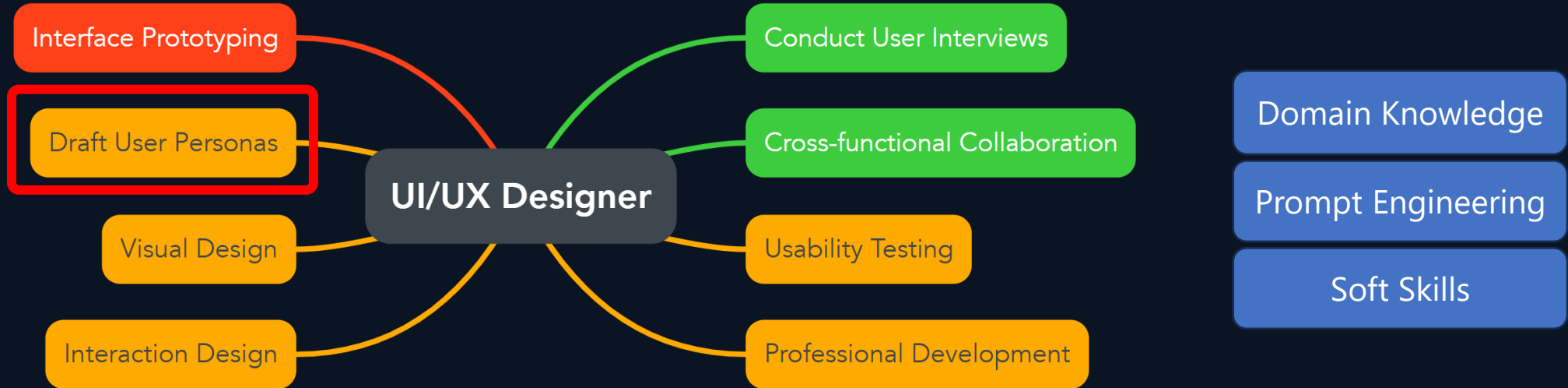
Generative AI Impacts on Designers





1. Gen AI **Text Generation** uses:

- Content Ideation: Generate design briefs, creative prompts, and brainstorming ideas.
- Copywriting: Automate UI copy, microcopy, and placeholder text for prototypes.
- Product Descriptions: Generate product copy for e-commerce designs.
- User Research Summarization: Summarize user feedback and interview notes for insights.
- Design Documentation: Assist with writing design principles and style guides.

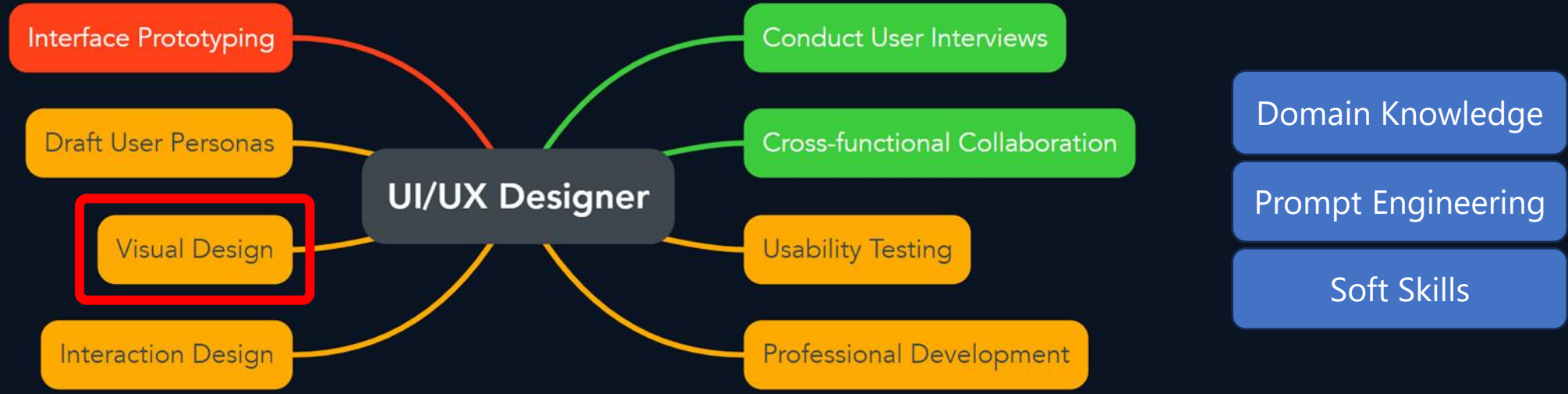


Figma AI^{AI}
DALL-E 3^{AI}

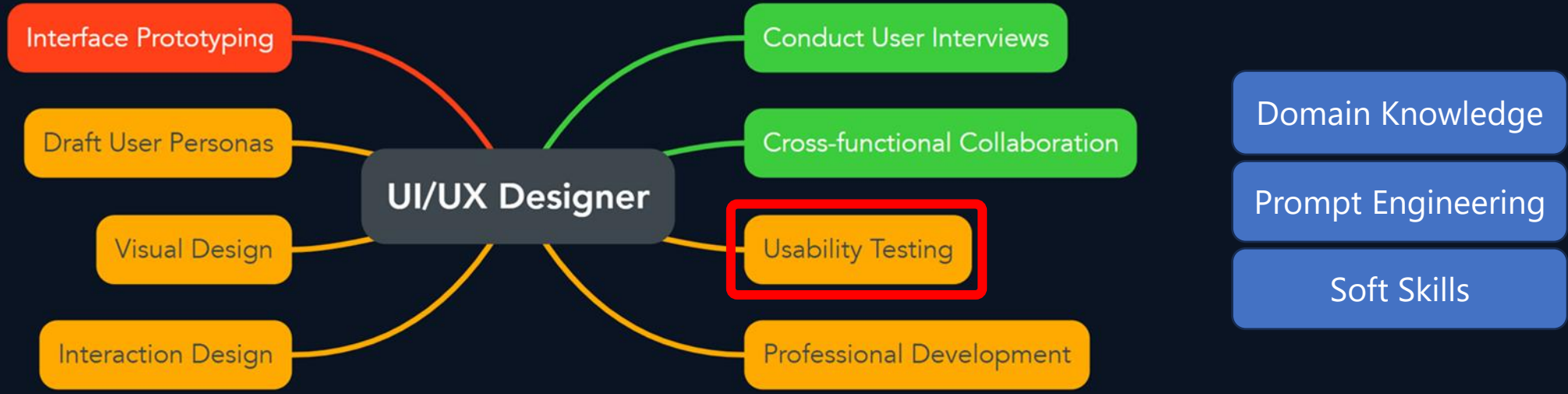
Jasper^{AI}
Pendo^{AI}

Runway^{AI}
ChatGPT^{AI}

Hotjar



- Figma AI^{AI}
- DALL-E 3^{AI}
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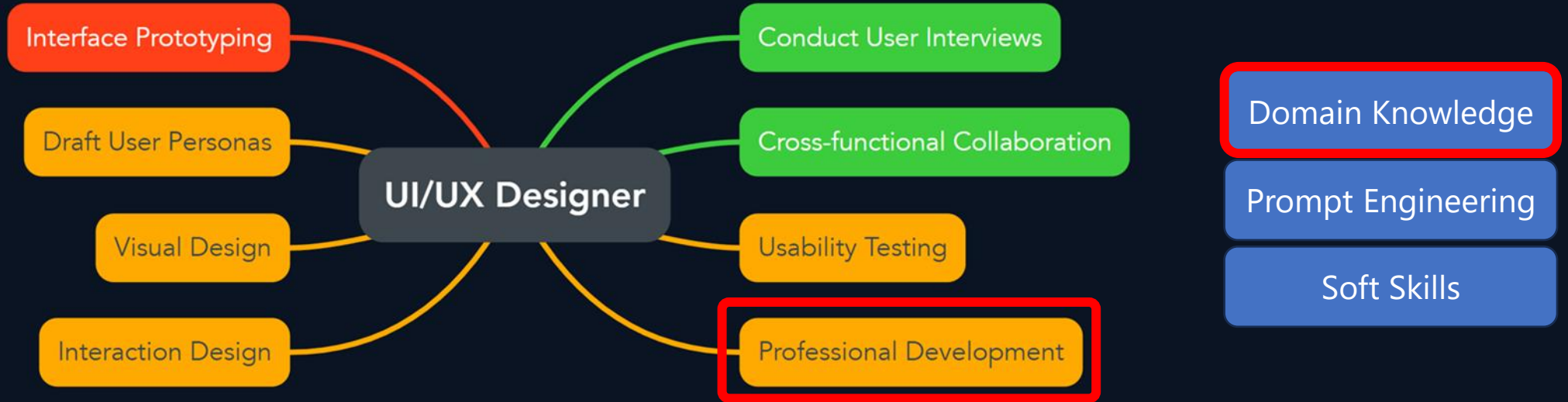
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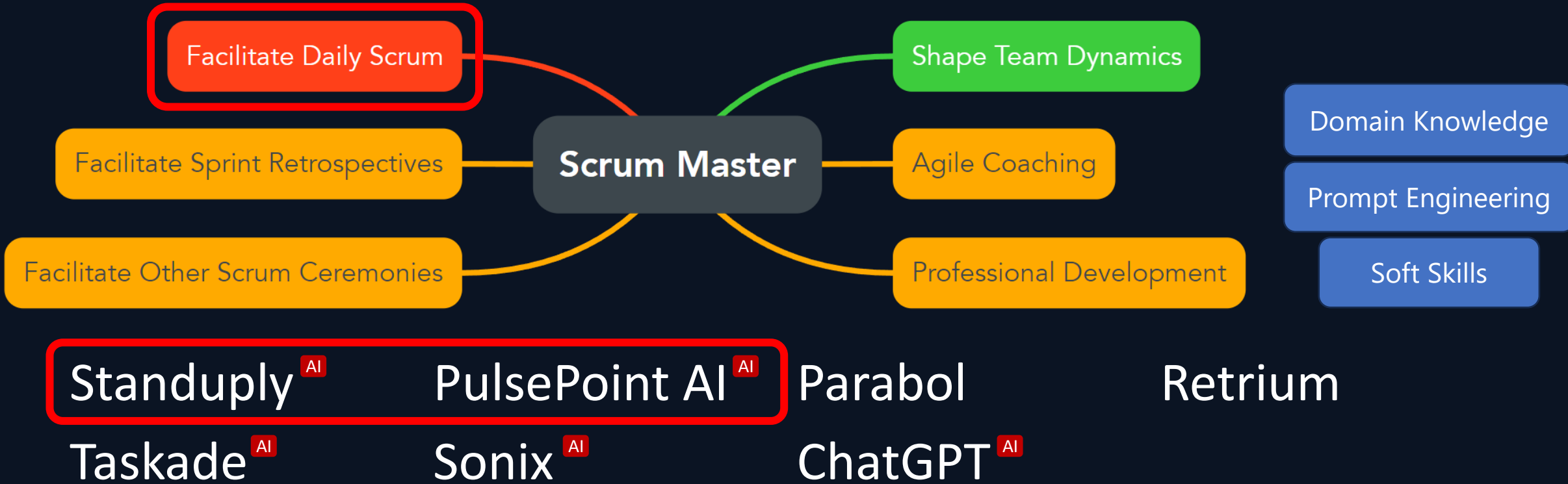


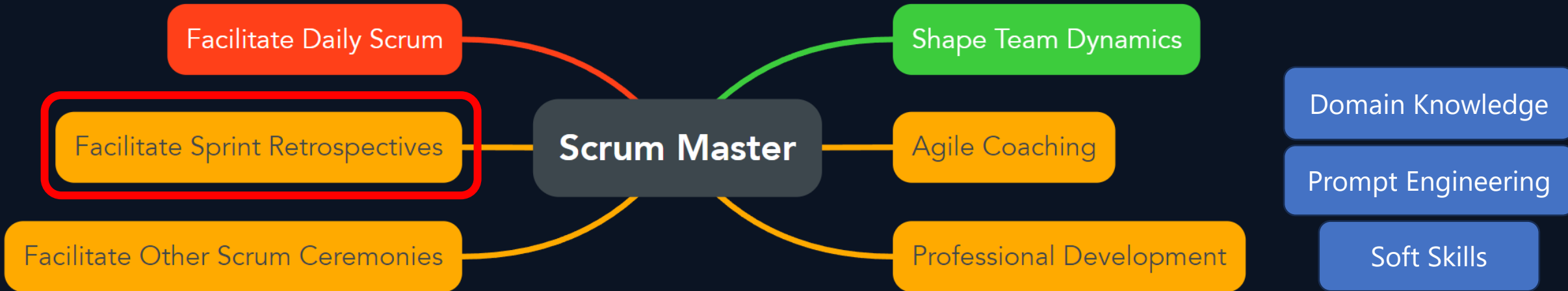
Figma AI^{AI}
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Runway^{AI}
ChatGPT^{AI}

Hotjar





Standuply^{AI}

PulsePoint AI^{AI}

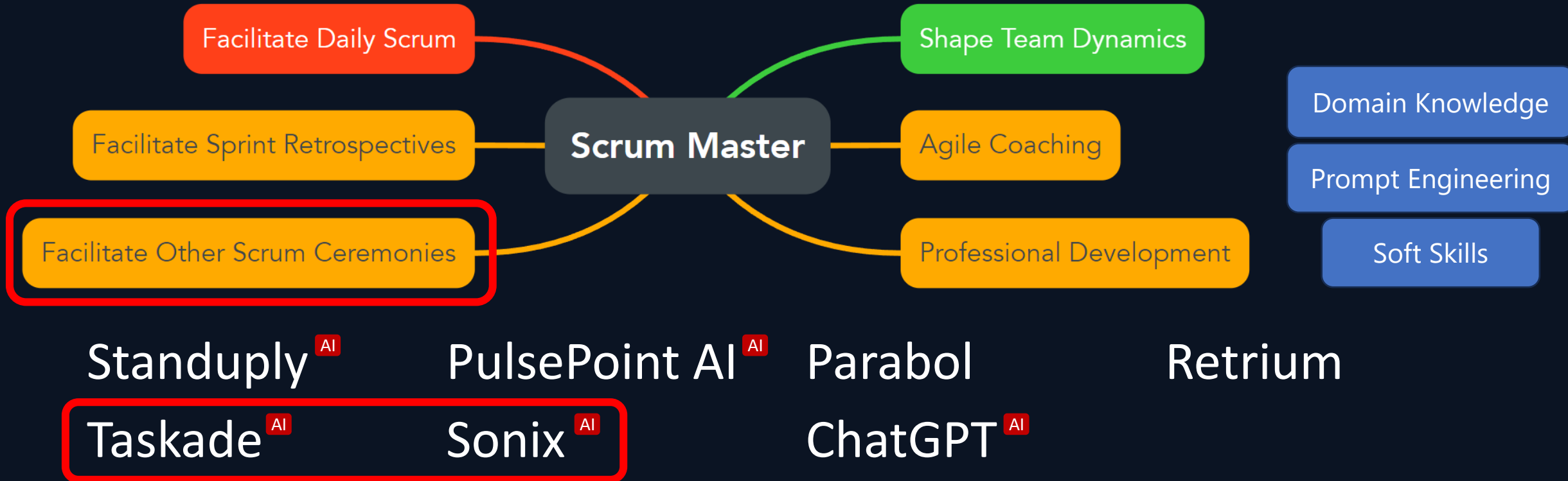
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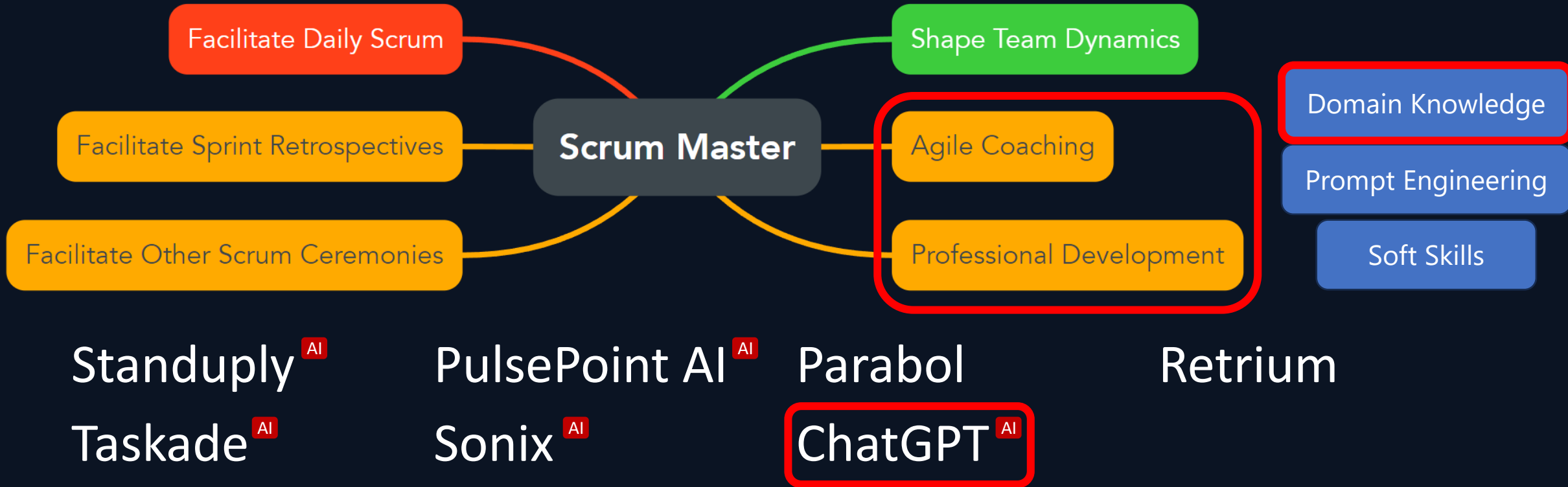
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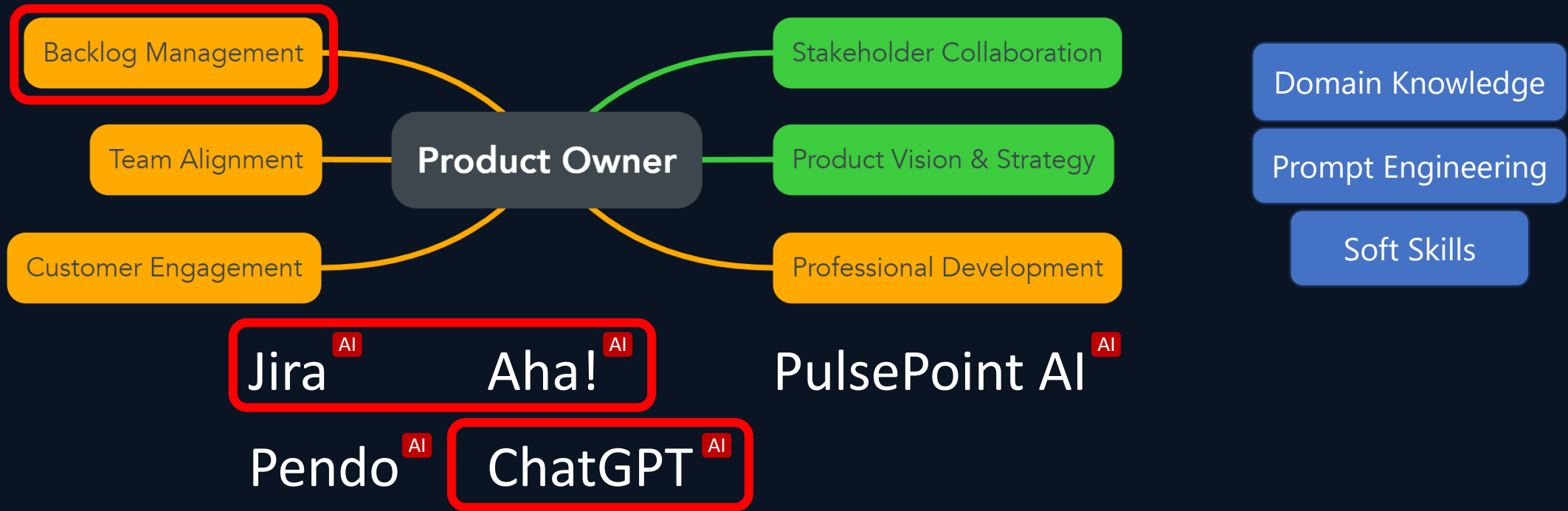
Taskade^{AI}

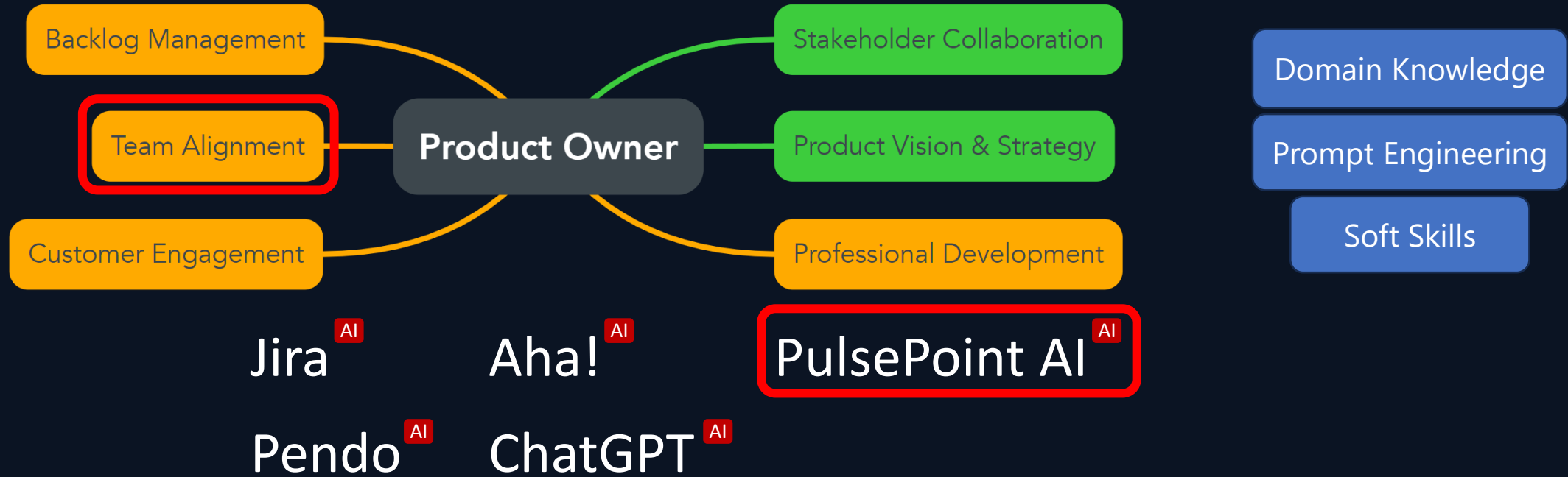
Sonix^{AI}

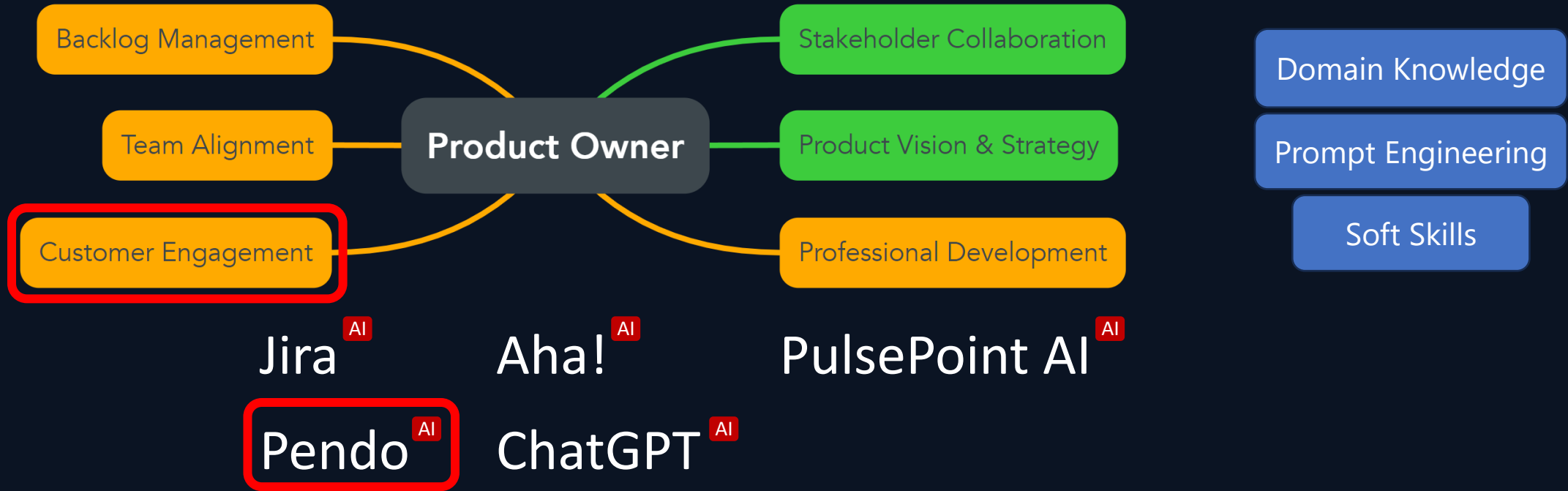
ChatGPT^{AI}

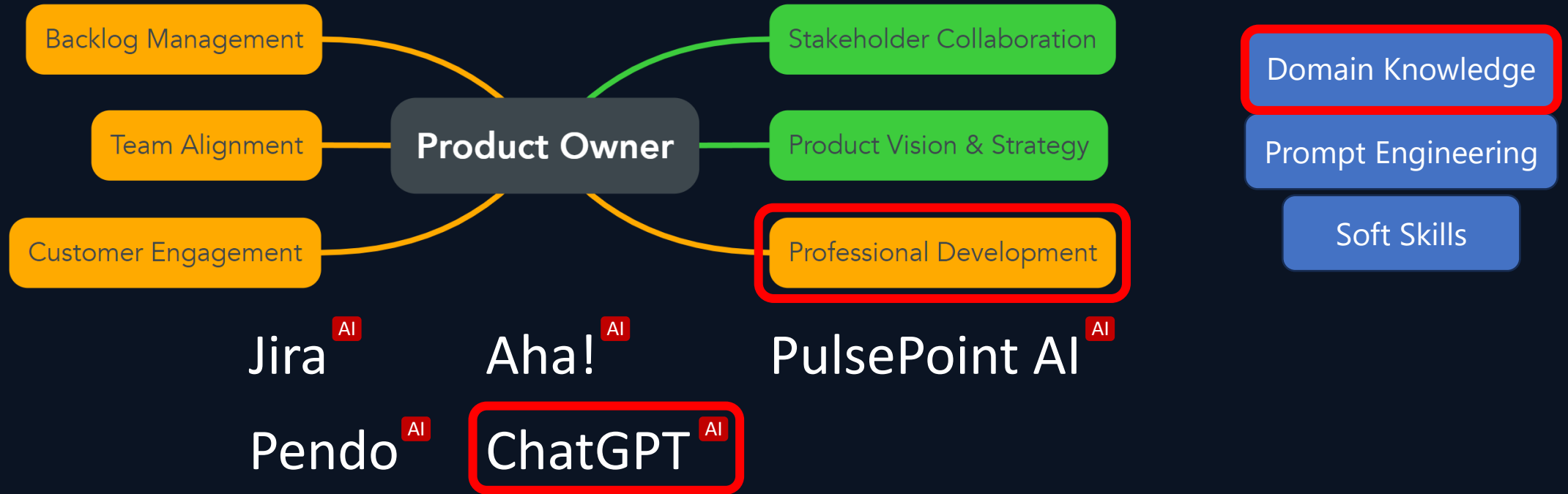






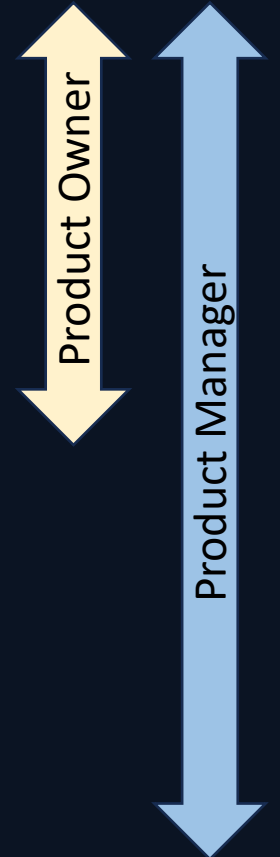






My advice: Product Owners should aspire to become full fledged Product Managers.

Collaboration with Technical Teams	
Setting Product Vision and Strategy	Customer and End-User Engagement
Market Analysis	Sales and Marketing Collaboration
User Experience (UX) Oversight	Project and Resource Management
Long-Term Product Vision and Strategy	Compliance and Legal Coordination
Comprehensive Market Analysis	Strategic Initiatives with Customer Success
High-Level UX Strategy	Delegation of Routine Tasks
Financial and Budget Management	Leadership and Team Development



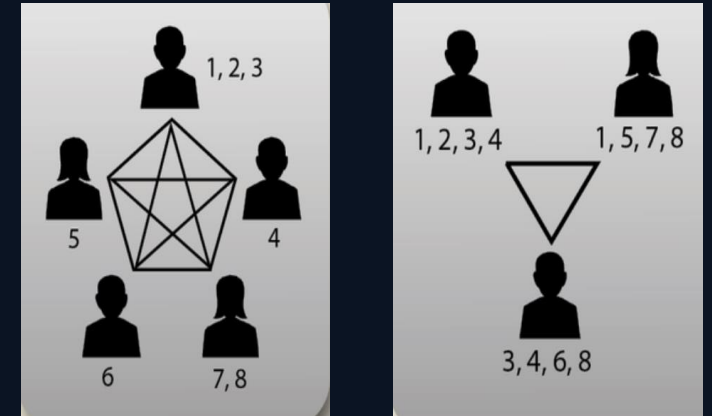
Prediction: Product Managers will become, by far, the most lucrative role on the entire product team. Today's great Product Managers will be tomorrow's CEOs.

Contact us to learn about Gen AI impacts
for other roles:

- Engineering Leaders
- Tech Leads
- DevOps Engineers
- Product Managers
- Project Managers
- QA Testers
- Researchers
- Solution Train Engineers
- Release Train Engineers
- Business Owners
- System Architects
- Solution Architects

My advice: Leverage AI to become a Cross Function Performer

- **Evolving Team Structures:** Doing more with less.
- **Cross-Functional Performers** replacing rigid roles.
- AI is a game changer for scaling your human talent horizontally & vertically.
- Adopt AI tools to streamline current tasks, boost productivity.
- Master Gen AI by using it “all day, every day.”
- Seek opportunities to contribute in adjacent roles.
- Don't let your unbelief hold you back!



***Trend:** Widely skilled cross-functional performers are replacing rigid roles.*



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Some consulting specialties:

1. Self hosted Gen AI solutions
2. SAFe Optimization
3. Conquering Technical Debt

