

# UTILISING AI AS AN API PRODUCT MANAGER

Using Product Led API Design



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# AI MUSIC

## My Introduction

- I make electronic music (as XAUF)
- This was my first AI augmented creation.

# TODAY

What I will be talking about

- Not about making music.
- Product, Context, APIs and AI.
- Not just slides.

# SPECIFICATION LED

What is it?

- Creating specifications for solutions before building them.
- Sometimes focused on the Engineering team creating these specifications.
- Usually centre on 'Requirements' and if Product is involved 'PRDs'.

# API FIRST

What is it?

- Designing the API before building the backend (sounds simple!).
- Usually focused on Engineering 'designing' the Open API Spec.

# PRODUCT LED / PRODUCT FIRST

Being led by Product Managers

- What is the landscape of the Product?
- Why is it needed & what job does it need to do?
- Who needs it?
- How do you prioritise what a team should focus on when you don't have enough data?
- What is your vision for the product?
- What inputs make you change your mind about what should be done?
- Always evolving.

# PRODUCT LED API DESIGN

What is it?

- Acknowledging APIs are Products and need Product Managers.
- Applying Product and Design Thinking to APIs.
- Doing this first!

# PRODUCT LED API DESIGN WITH AI

What is it?

- Using Artificial Intelligence to help Product Managers design APIs (please join “Product Led AI” on LinkedIn).
- A common tool for this is a natural language to Open API Specification UI.
  - But generally the Product context is lost, as the generation of the OAS is treated as a one off.
- Another common use of AI that can be helpful for designing APIs is synthetic data and mocking APIs; you don't need a special tool, just use any LLM (or SLM...)
  - This needs you to tell AI all about the context of the API.

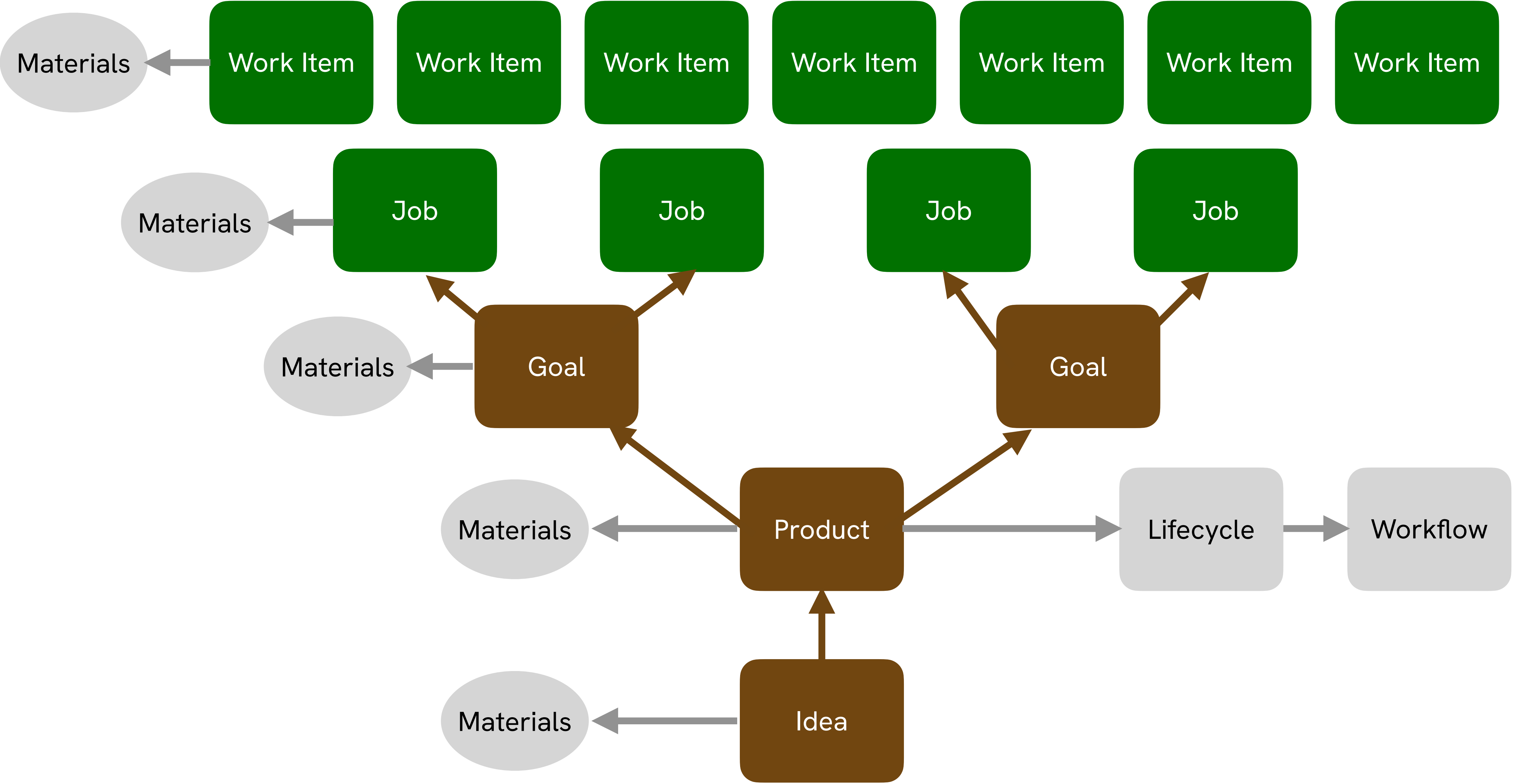


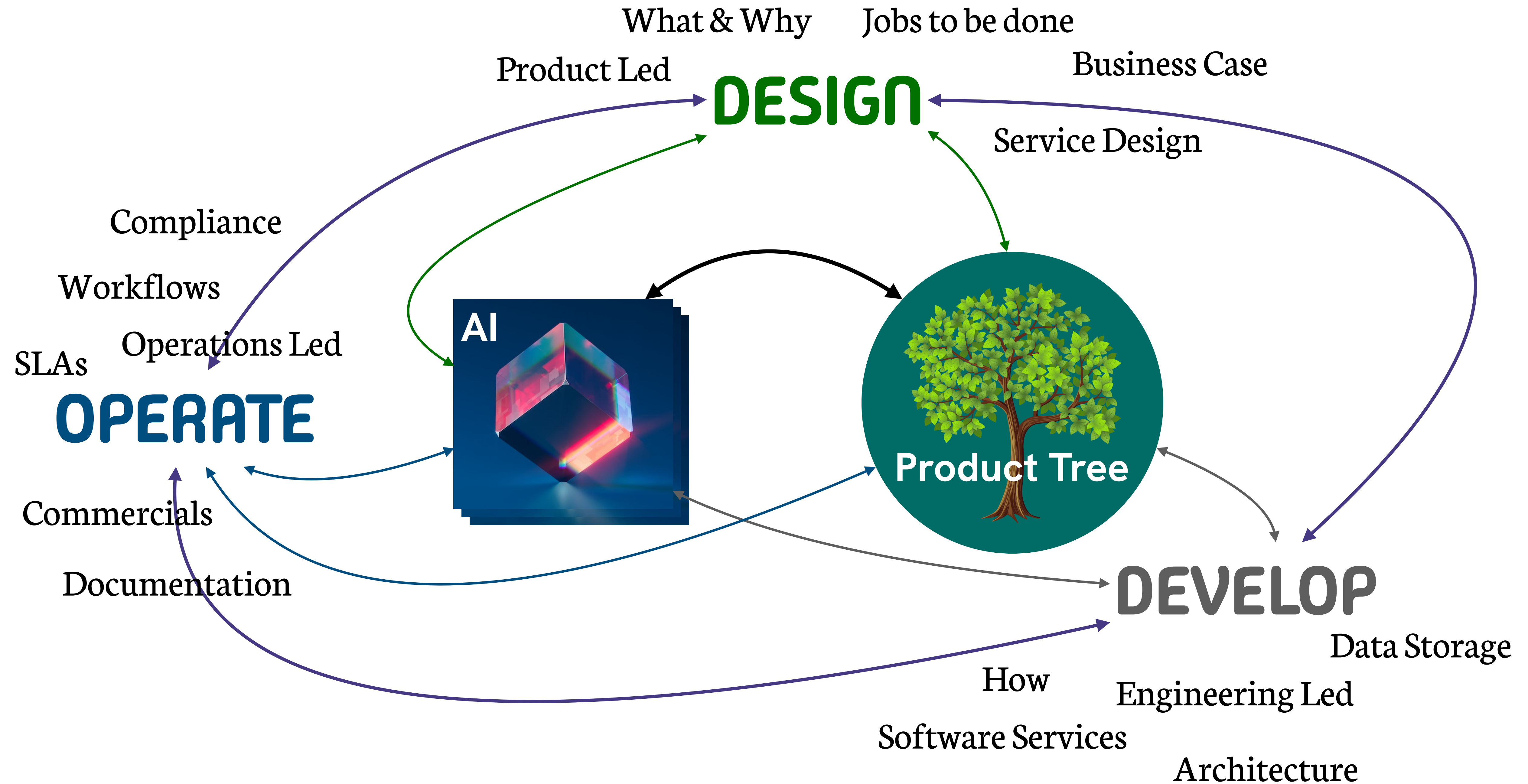
# THE PRODUCT TREE

A Product Led and evolving context for humans and AI

- A standardised XML file.
- Nodes: Product > Goal > Job > Work Item.
- Ideation is the 'seed' of the tree (although ideas can be promoted to any node; no metaphor is perfect!)
- Materials (URLs) can be attached to any node e.g. Personas to a Product, Figma designs to a Work Item.
- Allows AI to help you without you having to describe the context (acts as a knowledge graph).
- Allows teams to work towards the same thing, moving in the same direction.

# THE PRODUCT TREE





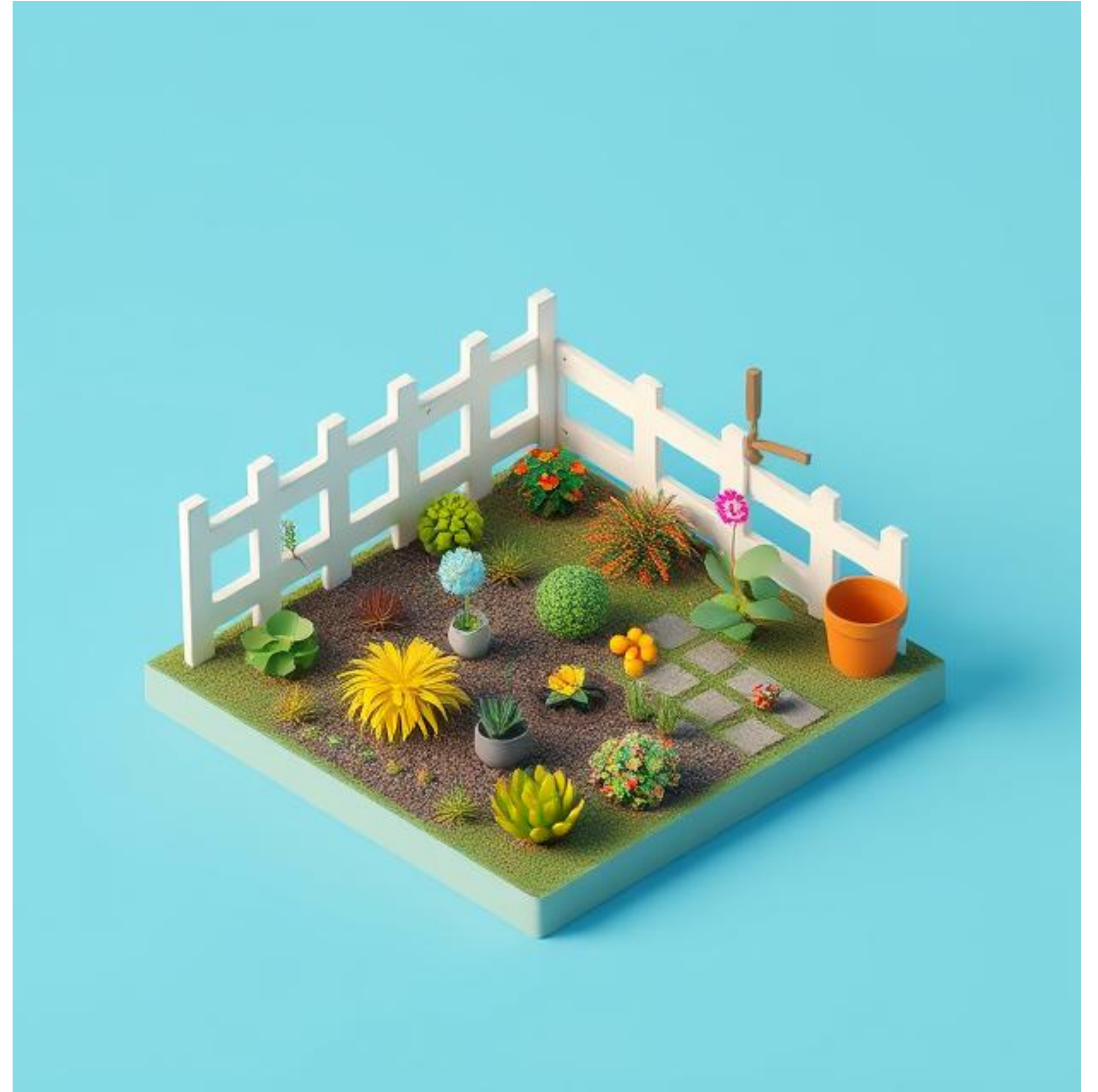
# PRACTICAL EXAMPLES

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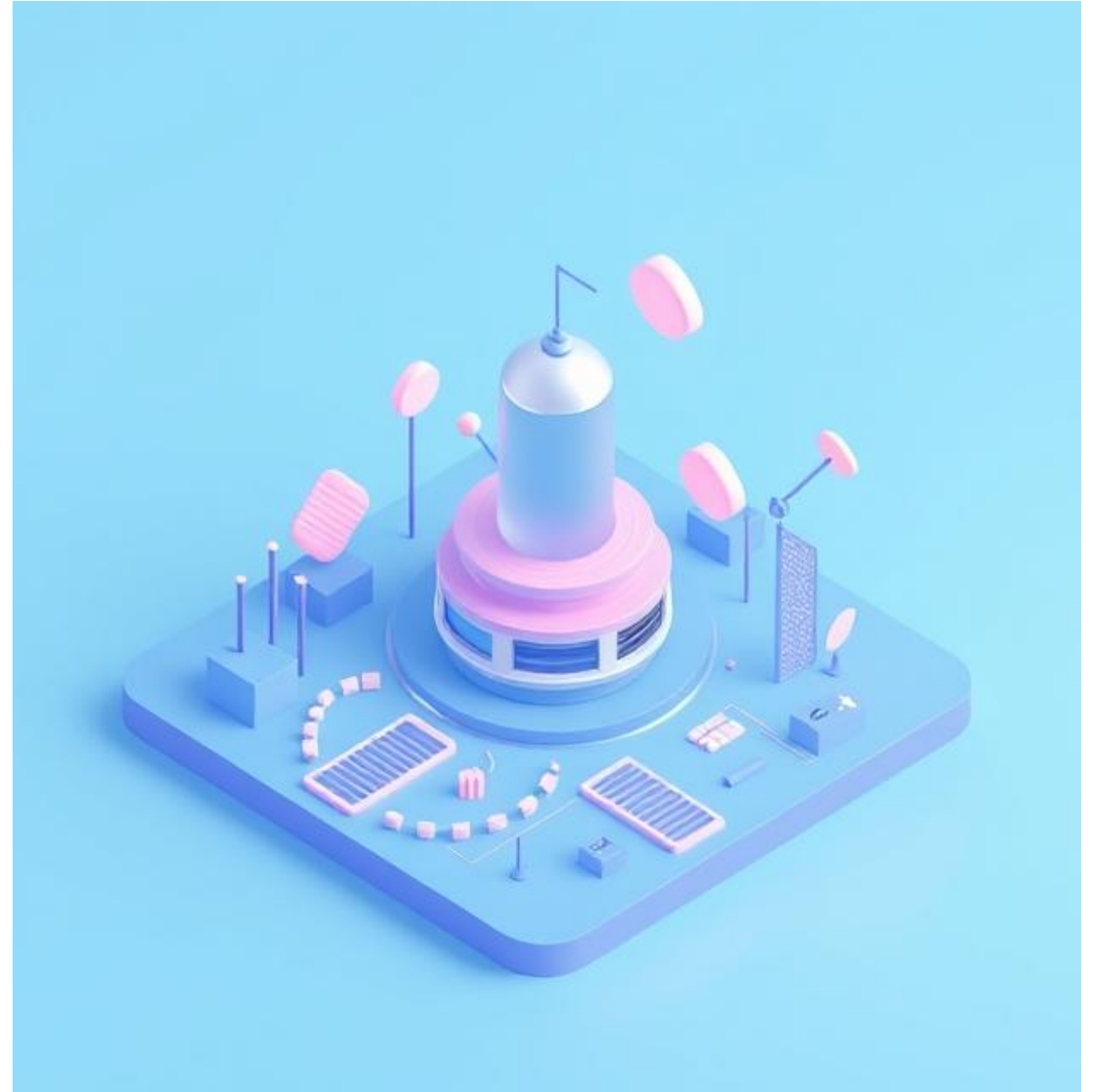
# FIRST THINGS FIRST

- Getting some product tree goodness from Jira
- Doing some gardening



# EXAMPLE 1

Design an API



# EXAMPLE 2

Design an MCP server



# ETC...

You can give the Product Tree XML to the AI of your choice, or get your developers to put it in a context folder in their projects and let their coding AI to take a look at it when needed.





# IN CONCLUSION

What can you, as an API Product Manager, take away from this?

- You can use the tools for free!
- The Product Tree tools are open sourced!
- That API Design should be Product Led.
- That AI can augment Product Led API Design.
- Actually, creating something like these tools, using AI to help and within them, has helped me learn all about AI; the good and the bad, and helps me make decisions and communicate about AI as a Product Manager at LSEG.
- I would suggest all Product Managers do something similar!

# QUESTIONS?

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# THE INMATES ARE RUNNING THE ASYLUM



## TAMING TECH MADNESS: SOLUTIONS FOR SANITY

ALAN COOPER



# UNHYPED

From Hype to Hard ROI  
in the Age of AI

Stuart Winter-Tear



# REFERENCES & FURTHER READING

## Specification-Led & API-First

- Spec-Driven Development: The Key to Scalable AI Agents – The New Stack (2025)
- Spec-Driven AI Development – Ran Aroussi / Automaze (2025)
- Understanding the API-First Approach to Building Products – Swagger (2024)
- API-First vs Code-First: A Comparative Study – J. Larsson et al. (2021)

## Product-Led APIs

- The API Product Mindset – Google Apigee eBook (2019)
- What API Product Managers Need – Deepa Goyal, InfoQ (2023)
- Why Winning with Technology Requires Being Product-Led – Spencer Stuart (2025)

## AI Needs Context

- A Survey of Context Engineering for Large Language Models – Mei et al. (arXiv, 2025)
- Contextual Retrieval in AI Systems – Anthropic (2024)
- Seizing the Agentic AI Advantage – McKinsey (2025)

## AI in API Design & Development

- Spec-Driven Development with AI: Open Source Toolkit – GitHub Blog (2025)
- Design-First Approach to API Development – InfoQ (2023)
- The Easy Button for Context-Rich AI Agents – Snowflake Blog (2025)