



# **Chelle AI & UCLA DataRes Consulting**

# Our Team



**Jane  
Zou**



**Katherine  
Huynh**



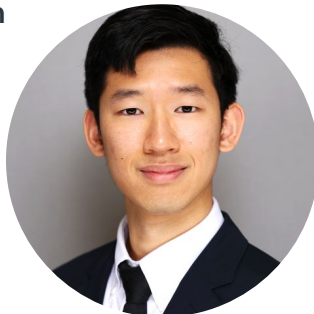
**Shloak  
Rathod**



**Eric  
Huang**



**Martin  
Bourdev**



**Tian  
Ouyang**



**Megan  
Jacob**



**Irene  
Zhang**

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# **Client Overview**

Streamlining Onboarding and Training



**Chelle revolutionizes the onboarding process, leveraging A.I. to get new employees up to speed faster with a dynamic mix of optimized onboarding and just-in-time information.**



# Chelle's Objectives

- **Reduce Time to Productivity:** On average, eight months for new hires.
- **Organize Knowledge:** Input documents, manuals, codebase, etc.
- **Manage Information:** Easily handle tribal knowledge.
- **Leverage AI:** Shorten new hire training, provides experienced team member support.
- **Training Objectives:** Define priorities for new hire curriculum.
- **Interactive Learning:** Progress verification and new material presentation.



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# **Project Scope & Objectives**

DataRes Consulting Collaboration

# Python Upskilling

- Empowering consultants with essential Python programming capabilities.
- NetworkX for comprehensive network analysis for data interpretation.



# HTML Web Scrapping

- Introduction to BeautifulSoup library for web scrapping in Python.
- Understanding its capabilities for HTML and XML parsing.
- Exploring the structure of NextJS documents for web scrapping.

# Embeddings Using OpenAI

- Introduction to OpenAI API for natural language processing tasks.
- Exploring methods to utilize OpenAI API for creating embeddings.
- Demonstrating the integration of OpenAI embeddings with NetworkX to create knowledge graphs.



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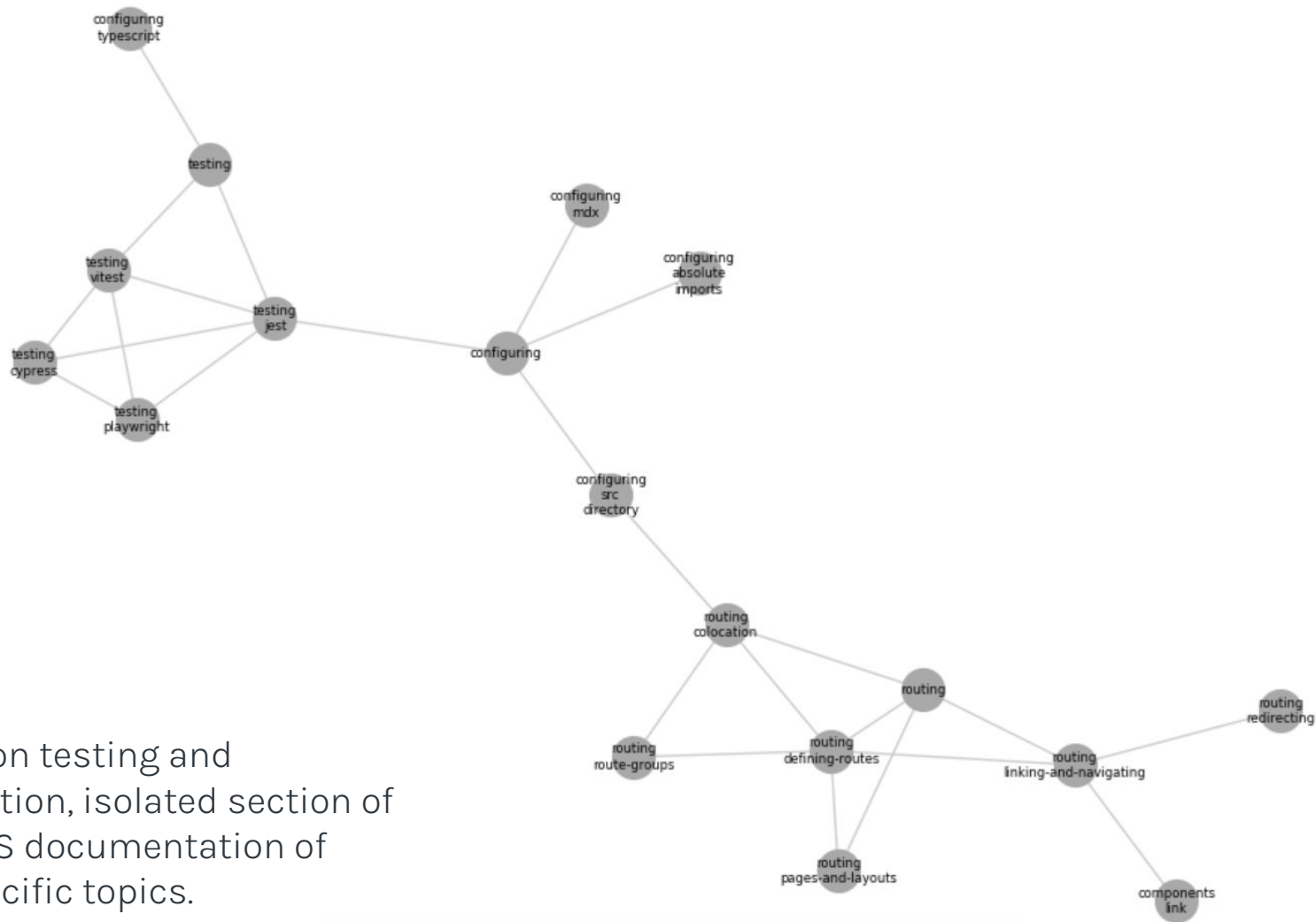
## **Key Findings**

Exploring knowledge graphs

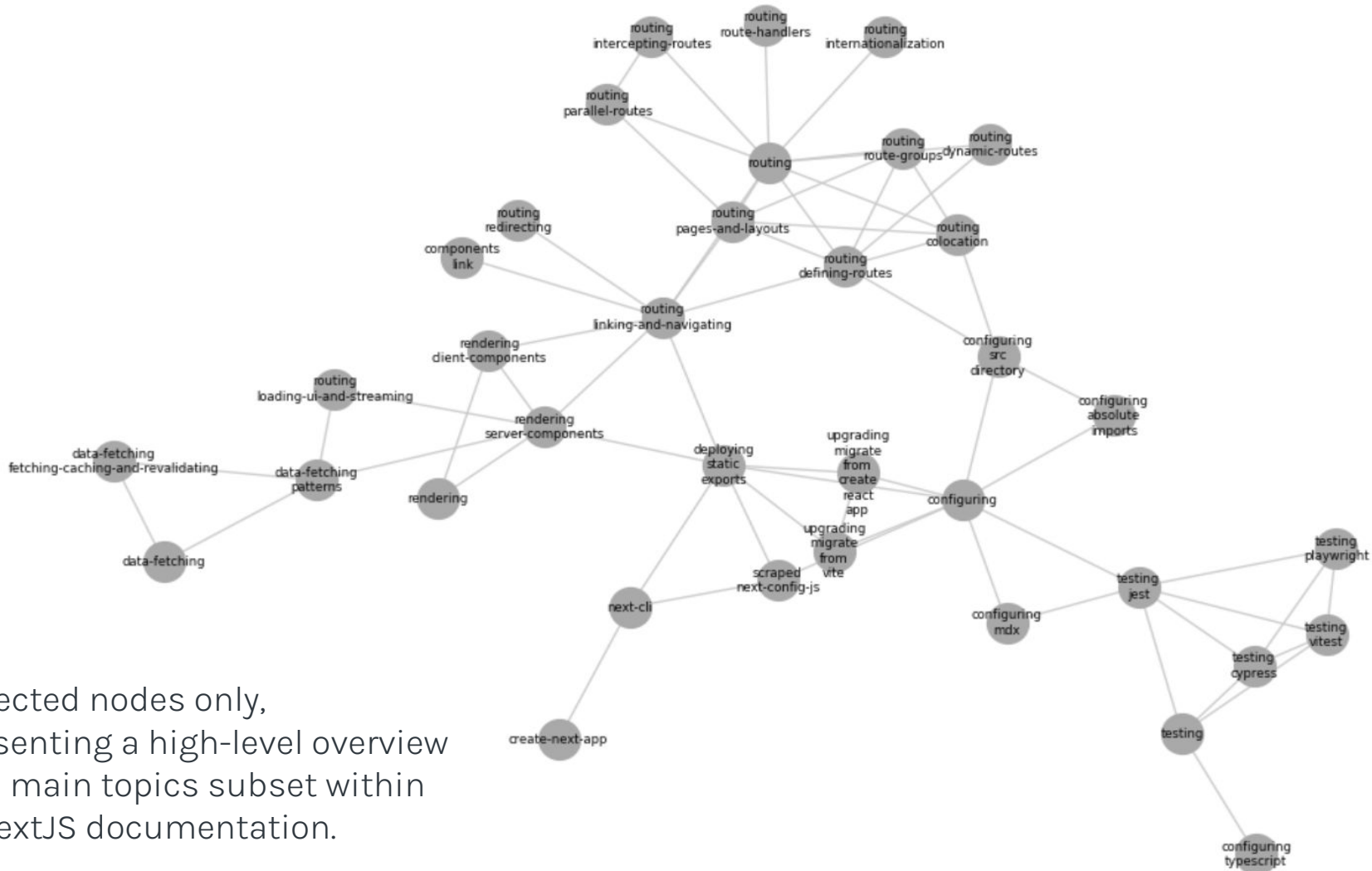


# About Knowledge Graphs

- Represents the **interconnected nature** of the Next.js documentation
  - Nodes: documentation topics
  - Edges: how these topics interlink, indicating flow and dependencies among features
- Guide through the extensive resources available in the Next.js documentation, **roadmap** to the information you need



Focused on testing and configuration, isolated section of the NextJS documentation of these specific topics.







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# **Proposed Next Steps**

Spring 2024





# Spring 2024

➤ **1. Evaluate Python Embedding Techniques:**

- Research various Python embedding methods, experiment to gauge effectiveness for project goals.

➤ **2. Explore Network Graph Tools:**

- Investigate graph libraries including and beyond NetworkX, assess features for improved visualization.

➤ **3. Prototype Development:**

- Develop prototypes integrating embeddings and hierarchies, test for functionality and effectiveness.

**Thank You**

