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✅ Resume-Ready Version

Network Dashboard – Samsung

Full-Stack Developer | [Month, Year] – [Month, Year]

A web-based dashboard enabling network engineers to monitor, visualize, and troubleshoot network issues across Samsung's infrastructure.

- Developed the **Troubleshooting module**, fetching device details and metadata from downstream Samsung databases for real-time diagnostics.
- Integrated **JWT-based authentication** across all modules using Spring Security, ensuring secure and role-based access to resources.
- Designed and implemented **"Create Session"** functionality, allowing engineers to isolate and monitor a specific subset of devices for targeted troubleshooting.
- Built the **Network Visualization module** using **GoJS**, presenting a live topology of connected devices to aid in understanding network relationships and identifying issues visually.
- Applied **design patterns** and developed the system in a **microservices architecture** to ensure modularity, scalability, and maintainability.
- Wrote comprehensive **end-to-end tests using Cypress** for Angular components to ensure high reliability.
- **Tech Stack:** Java, Spring Boot, Spring Security, Angular, GoJS, Cypress, Nx Framework, Microservices, JUnit

💡 How to Explain to an Interviewer (Step-by-Step)

1. Start with the Problem Statement:

"Samsung has a large-scale network infrastructure, and the engineers needed a centralized dashboard to monitor devices, check their status, and troubleshoot issues efficiently."

2. Your Role:

"I worked as a full-stack developer on the Network Dashboard project. My main focus was on implementing key modules that made the dashboard interactive, secure, and highly functional for network engineers."

3. Break Down the Features You Built:

- **Troubleshooting Section:**
  "This displays device data (like status, type, logs) and metadata (location, ownership, history) in real-time, pulled from Samsung's internal databases via REST APIs. It helps engineers pinpoint and diagnose issues quickly."
- **JWT Authentication:**
  "I used Spring Security to implement JWT-based authentication. This ensured that only authorized users could access sensitive data or perform actions, improving the overall security of the system."
- **Create Session Feature:**
  "This feature lets an engineer select and focus on a limited number of devices they want to monitor. It creates a scoped session, so they don't get overwhelmed by the full network view."
- **Visualization with GoJS:**
  "I used GoJS to visualize how all devices are interconnected in a network graph. Engineers can zoom, hover for metadata, and identify broken links or unusual topologies."

4. Why Your Work Matters:

"Before this dashboard, engineers had to use multiple tools and log systems. With this, everything is unified in one UI, with focused views, visual aids, and secure access. It reduced mean-time-to-diagnosis (MTTD) significantly."

5. Architecture & Practices:

"The backend was built using a microservices architecture with Spring Boot. Each module had a clear responsibility, and we followed best practices like using design patterns (e.g., Strategy,

Factory) for flexibility. On the front-end, we used Angular with Nx for modular code organization, and Cypress for robust E2E testing."

🔑 Pro Tips for Interview

- **Mention scale** if asked: *"It handled thousands of network devices across different regions, with data streaming in real-time."*
- **Security Awareness**: *"Security was a key concern, especially with JWT-based authentication and role-based access control."*
- **Impact**: *"It saved the engineers hours of manual effort daily and allowed faster resolution of network incidents."*

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