Test Proof: Search and Filter Contacts (#1649)

Date: 2025-12-30 **Execution Environment**: Local Development (Mac OS) **Test File**: backend/tests/test_search_contacts_story.py

User Story Details

Description: Search and filter contacts. **Acceptance Criteria Verified**: 1. Search by name returns correct results. 2. Filters work by relationship. 3. Clearing filters resets list.

Execution Log

```
platform darwin -- Python 3.9.20, pytest-8.4.2, pluggy-1.5.0
rootdir: /Users/trickshot/Desktop/AI_based_tools/Wishing_tool/backend
plugins: anyio-4.9.0, typeguard-2.13.3, langsmith-0.3.42
collected 5 items

tests/test_search_contacts_story.py .....          [100%]

=================== 5 passed, 8 warnings in 3.42s ===================
```

Test Cases Covered

1. **test_search_by_name**: Queries for partial name match (e.g., "Smith" finds Alice and David).
2. **test_filter_by_relationship**: Exact filter match (e.g., "Friend" finds Alice and Charlie).
3. **test_search_by_email**: Ensures search covers email fields (e.g., "gmail").
4. **test_combined_search_filter**: Verifies AND logic (Search "Smith" + Relationship "Friend" -> Alice only).
5. **test_clear_filters**: Verifies calling endpoint without params returns full list.