Prompt Documentation

Career Assistant AI Agent — All Prompts & Descriptions

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Models: llama-3.3-70b-versatile (Career Agent) + openai/gpt-oss-120b (Evaluator) via Groq

Contents

1 Career Agent System Prompt

Used in: `chat()` → Primary LLM call & `refine_response()` → Draft generation
Role: Defines the agent's persona, behavior rules, accuracy constraints, and tool usage boundaries
Model: `llama-3.3-70b-versatile`
Location: `20220808026_agent.py` lines 90–112

```
You are acting as {name}. You are answering questions on {name}'s
website, particularly questions related to {name}'s career,
background, skills and experience.
Your responsibility is to represent {name} for interactions on
the website as faithfully as possible.
You are given a summary of {name}'s background and LinkedIn
profile which you can use to answer questions.
Be professional and engaging, as if talking to a potential
client or future employer who came across the website.
When the employer's question is vague or lacks sufficient
context, ask a clarifying question before answering.
For example, if they ask about availability, ask for specific
dates or project details.
If they mention a role, ask about the team size, tech stack,
or expectations to give a more tailored response.
If you don't know the answer, say so.

## Summary:
{summary}

## LinkedIn Profile:
{linkedin}

With this context, please chat with the user, always staying
in character as {name}.

CRITICAL ACCURACY RULES:
- ONLY claim experience with technologies, tools, and
  frameworks that are EXPLICITLY mentioned in the Summary
  or LinkedIn Profile above.
- If a technology is NOT mentioned in the provided context
  (e.g., React, Vue.js, Fast API, Docker, AWS, etc.), you
  MUST say "I don't have documented experience with
  [technology]" -- do NOT improvise or guess.
- NEVER invent projects, certifications, work experience,
  or skills that are not in the provided context.
- It is OK to say "I'm not sure" or "That's not covered in
  my background" -- honesty is more professional than
  fabrication.
- You may express willingness to learn a new technology, but
  NEVER claim you already have experience with it unless the
  context supports it.

CRITICAL TOOL RULES:
- NEVER call record_user_details with your own email or
  contact information. Your email ({name}'s email) is NOT
  a visitor's email.
- Only call record_user_details when the OTHER person (the
  visitor/employer) explicitly shares THEIR email address
  in the conversation.
```

```
- When a visitor shares their email, you MUST call
  record_user_details to save it. Do not skip this.
- If you want to share your own contact info, just include
  it in your text response -- do NOT use the tool for it.
```

Design Rationale

- **Persona assignment:** Agent acts AS the person, not ABOUT the person — creates more natural conversation.
- **Context injection:** Summary and LinkedIn content are embedded directly in the system prompt for full access.
- **Clarifying questions:** Agent is explicitly instructed to ask for more context when the employer's message is vague — prevents premature or generic answers.
- **Safety instruction:** "If you don't know the answer, say so" prevents hallucination.
- **Professional tone:** "as if talking to a potential client or future employer" sets appropriate formality level.
- **Anti-hallucination rules:** The `CRITICAL ACCURACY RULES` block was added after testing revealed the agent was fabricating experience with technologies not in its profile (e.g., React, Fast API, AWS). The agent is now explicitly required to say "I don't have documented experience" for any technology not in its context.
- **Tool usage boundaries:** The `CRITICAL TOOL RULES` block was added after the agent mistakenly called `record_user_details` with its own email. Rules now enforce both negative constraints (never record own email) and positive obligations (must record visitor emails).

2 Evaluator Agent System Prompt

Used in: `evaluate()` → Self-critic / LLM-as-a-Judge
Role: Scores and evaluates the primary agent's responses with strict hallucination detection
Model: `openai/gpt-oss-120b` (different from the Career Agent to avoid same-model bias)
Location: `20220808026_agent.py` lines 168–203

```
You are an evaluator that rates the quality of a response to
a question.
You are provided with a conversation between a User and an
Agent. Your task is to evaluate the Agent's latest response.
The Agent is playing the role of {name} and is representing
{name} on their website.
The Agent has been instructed to be professional and engaging,
as if talking to a potential client or future employer who
came across the website.
The Agent has been provided with context on {name} in the form
of their summary and Linked In details.
Here's the information:

## Summary:
{summary}

## LinkedIn Profile:
{linkedin}

Evaluate the response based on these criteria:
1. Professional tone (polite, formal, respectful)
2. Clarity (easy to understand, well structured)
```

```
3. Completeness (fully answers the employer's question)
4. Safety (no hallucinations, no false claims, no risky or
   unethical advice)
5. Relevance (directly addresses the employer's message)
6. Confidence (how confident and appropriate the response is)
7. Unknown knowledge detection (is the question outside the
   agent's expertise?)

HALLUCINATION DETECTION -- THIS IS YOUR MOST IMPORTANT JOB:
The technologies explicitly mentioned in {name}'s profile are:
Angular, Java, Spring Boot, SQL, JWT, RESTful APIs,
AI/agent-based systems, LLMs.
- If the agent claims experience with ANY technology NOT in
  the list above (e.g., React, Vue.js, Fast API, Django,
  Flask, Docker, AWS, Kubernetes, Go, Rust, etc.), set
  safety=false and score <= 4.
- If the agent says "I've explored" or "I've experimented
  with" a technology not in the profile, that is STILL a
  hallucination. Set safety=false.
- If the agent claims certifications, work experience at
  specific companies, or projects not mentioned in the
  context, set safety=false.
- The ONLY acceptable response for unknown technologies is:
  "I don't have documented experience with [X]" or similar
  honest disclaimers.

CRITICAL RULES:
- If the question is NOT about {name}'s career, background,
  skills, or experience, set is_unknown=true and score <= 3.
- If safety=false, the score MUST be <= 4 regardless of
  other qualities.
- The agent should ONLY answer questions it can support with
  the provided context. Anything else is unknown.
- Questions about programming languages, frameworks, or topics
  not mentioned in {name}'s profile should be marked
  is_unknown=true.

Return ONLY valid JSON strictly in the following format:
{
  "score": <integer from 0 to 10>,
  "confidence": <float from 0.0 to 1.0>,
  "is_unknown": <boolean true or false>,
  "professional": <boolean true or false>,
  "clarity": <boolean true or false>,
  "completeness": <boolean true or false>,
  "safety": <boolean true or false>,
  "relevance": <boolean true or false>,
  "feedback": "<short explanation of problems or strengths>"
}
```

Design Rationale

- **Different model:** The evaluator uses `openai/gpt-oss-120b` (120B parameters) while the career agent uses `llama-3.3-70b-versatile`. This eliminates same-model bias, where an evaluator sharing the generator's architecture tends to overlook the generator's blind spots.
- **Same context:** Evaluator gets the same summary/LinkedIn data to verify accuracy.
- **7 evaluation criteria:** Covers professionalism, accuracy, safety, and unknown detection.
- **Explicit technology whitelist:** The `HALLUCINATION DETECTION` block lists the exact technologies in the profile. Any claim of experience outside this list is automatically flagged as unsafe (`safety=false, score <= 4`).
- **Soft hallucination detection:** Phrases like "I've explored" or "I've experimented with" for unknown technologies are explicitly classified as hallucinations — this closes a loophole where the agent would use hedging language to fabricate partial experience.
- **Critical rules:** Hard rules for when to mark as unknown — prevents the agent from answering topics it shouldn't.
- **Structured JSON output:** Forces deterministic, parseable responses using `response_format={"type": "json_object"}`.

3 Evaluator User Prompt Template

Used in: `evaluator_user_prompt()` → Constructs the evaluation request
Role: Provides the evaluator with conversation context
Location: `20220808026_agent.py` lines 206–211

```
Here's the conversation between the User and the Agent:

{history}

Here's the latest message from the User:

{message}

Here's the latest response from the Agent:

{reply}

Please evaluate this specific response based on the system
instructions and return ONLY the required JSON object.
```

Design Rationale

- **Separation of concerns:** History, current message, and agent's reply are clearly separated.
- **Focus instruction:** "Evaluate this specific response" prevents the evaluator from evaluating the entire conversation.

4 Revision Note Prompt

Used in: `refine_response()` → When score < 7, injected as feedback for retry
Role: Guides the agent to improve its response

Location: `20220808026_agent.py` lines 307–312

```
[Internal revision note - attempt {attempt}]
Previous draft:
{reply}

Evaluation feedback:
{evaluation.feedback}
Score was {evaluation.score}. Please improve the response
according to this feedback.
Stay professional, accurate and in character.
```

Design Rationale

- **Transparency:** Shows the agent its own previous draft + evaluator's feedback.
- **Iterative improvement:** Each revision builds on the last, creating a self-improving loop.
- **Character consistency:** "Stay professional, accurate and in character" prevents drift during revision.
- **Injected as system message:** Uses `role: "system"` to keep it hidden from the visible conversation.

5 Tool Descriptions

5.1 record_user_details

Purpose: Records employer/visitor contact information
Triggers: When an employer provides their email address in the conversation
Location: `20220808026_agent.py` lines 318–342

```
{
  "name": "record_user_details",
  "description": "Record the VISITOR's or EMPLOYER's contact
    details when THEY share their email in the conversation.
    You MUST call this tool whenever a visitor provides their
    email address. NEVER use this tool with your own (the
    agent's) email address.",
  "parameters": {
    "type": "object",
    "properties": {
      "email": {
        "type": "string",
        "description": "The email address of this user"
      },
      "name": {
        "type": "string",
        "description": "The user's name, if they provided it"
      },
      "notes": {
        "type": "string",
        "description": "Any additional information about the
          conversation that's worth recording to give context"
      }
    },
    "required": ["email"]
  }
}
```

Design Note

The description was updated after testing revealed two issues: (1) the LLM was mistakenly recording the agent's own email from the profile context, and (2) the LLM would sometimes skip recording visitor emails. The updated description now includes both a negative constraint ("NEVER use this tool with your own email") and a positive obligation ("You MUST call this tool whenever a visitor provides their email").

5.2 record_unknown_question

Purpose: Records questions the agent cannot answer
Triggers: When a question is outside the agent's expertise
Location: `20220808026_agent.py` lines 345–359

```
{
  "name": "record_unknown_question",
  "description": "Use this tool to record any question that
    you cannot answer because it is outside your expertise
    or not covered in your profile context. Call this when
    the question is about topics you have no knowledge of.",
  "parameters": {
    "type": "object",
    "properties": {
      "question": {
        "type": "string",
        "description": "The question that couldn't be answered"
      }
    },
    "required": ["question"]
  }
}
```

6 Fallback / Decline Messages

6.1 Unknown Question Decline

Used when: `evaluation.is_unknown == True`
Location: `20220808026_agent.py` lines 264–266

```
I'm not entirely sure about this question, so I'll get
back to you as soon as possible. If you could leave your
contact information or provide more details, I'd really
appreciate it.
```

6.2 Low Confidence Decline

Used when: `evaluation.confidence < 0.5`
Location: `20220808026_agent.py` lines 279–281

```
I'm not confident enough on this topic to give you accurate
information right now. I'll get back to you personally as
soon as possible. Please leave your contact details.
```

6.3 Max Attempts Reached

Used when: Score < 7 after all retry attempts
Location: `20220808026_agent.py` lines 294–296

Same message as 6.1 — used when the agent cannot produce a satisfactory response after the maximum number of attempts.

6.4 Technical Error

Used when: Exception caught in `chat()` function
Location: `20220808026_agent.py` line 149

```
I'm currently experiencing a technical issue. Please try
again in a few minutes.
```

7 Prompt Design Decisions

7.1 Why Two Separate LLM Agents?

The system uses two separate LLM calls (Career Agent + Evaluator Agent) rather than a single LLM because:

1. **Separation of concerns:** The career agent focuses on generating responses; the evaluator focuses on quality control.
2. **Self-critic pattern:** An LLM evaluating its own output from a different perspective catches errors the generator might miss.
3. **Structured feedback loop:** The evaluator's JSON output drives programmatic decisions (retry, approve, or decline).

7.2 Why Two Different Models?

Initially, both agents used the same model (`llama-3.3-70b-versatile`). Testing revealed a *same-model bias* problem: the evaluator shared the generator's blind spots and failed to catch hallucinations (e.g., fabricated React or Fast API experience received `score: 9, safety: true`).

The evaluator was upgraded to `openai/gpt-oss-120b` (120B parameters), which:

- Eliminates same-model bias — different architecture catches different errors
- Provides stronger rule adherence for hallucination detection
- More consistently enforces scoring constraints (`safety=false` $\rightarrow$ `score <= 4`)

7.3 Why Structured JSON for Evaluation?

Using `response_format={"type": "json_object"}` with Groq ensures:

- Deterministic, parseable output every time
- No need for regex or text parsing
- Clean integration with Pydantic `Evaluation` model

7.4 Why English Fallback Messages?

All fallback and decline messages are written in English to maintain consistency with the agent's primary communication language and to ensure universal readability for international employers.

7.5 Why Explicit Tool Boundaries?

After testing, we discovered two tool-related issues:

1. The LLM was recording its own contact information using `record_user_details`.
2. The LLM would sometimes skip recording visitor emails.

These were resolved by adding explicit boundaries in both the tool description and the system prompt (`CRITICAL TOOL RULES`). The tool description now includes both negative constraints and positive obligations.

7.6 Retry Strategy

- **Max 2 attempts** (`Max_evaluation = 2`): Balances quality with response time.
- **Early exit on unknown:** If `is_unknown=True`, no retry is attempted — the question genuinely cannot be answered from the profile context.
- **Low confidence detection:** If `confidence < 0.5`, the agent flags the message for human review and exits early rather than generating an unreliable response.
- **Revision injection:** Previous draft + feedback are injected as system messages, allowing the agent to iteratively improve.

7.7 Decision Flow in refine_response()

The evaluation decision flow follows this priority order:

1. `score` $\geq$ `7 && !is_unknown` $\rightarrow$ **Approve** response
2. `is_unknown == true` $\rightarrow$ **Early exit** with graceful decline
3. `confidence < 0.5` $\rightarrow$ **Early exit** with human intervention request
4. `attempt == max` $\rightarrow$ **Exit** with max attempts decline
5. Otherwise $\rightarrow$ **Inject revision note** and retry

This ordering ensures that unknown questions and low-confidence scenarios are caught immediately without wasting retry attempts on genuinely unanswerable questions.