



Handshake Hackathon



Engineered by Innovators Sharing the Job Seeker's Path
GEORGE MASON UNIVERSITY



Gaps addressed

- Feature 1: "SkillGapAnalysis" - gives resume-to-JD compatibility, insights to bridge skill gaps for optimal match.
- Feature 2: "HANDY" - Generates intuitive AI-driven question from job descriptions to clarify roles and map out precise skill development paths.
- Feature 3: "QuickTest" - AI-powered sub-minute exam tool to assess candidate's interest and proficiency for smarter, effective hiring.



Skill Gap Analysis - Optimize Your Application

CHALLENGE: Talented applicants miss opportunities by not customizing their resumes to mirror the unique requirements specified in job descriptions.

SOLUTION: This tool scans, pinpoints essential skills not in your resume but crucial for the job, offering enhancement recommendations.

IMPACT: Enables candidates to transform a generalist resume into a targeted application, increasing match percentage and visibility to employers.

HANDY

Handshake AI: Navigating Dream Careers and Your potential

CHALLENGE: Applicants often struggle with navigating the complexities of JD leaving them uncertain about various aspects of the job posting.

SOLUTION: Intuitive AI-generated questions by HANDY delve into job details, guiding skill development, providing a deeper insights to the applicant.

IMPACT: Sharpens understanding and preparation for roles, integrating with Coco for an engaging learning path.



QuickScreen - Fast-Track to Top Candidates

CHALLENGE: Filtering through applicants to find those genuinely interested and qualified.

SOLUTION: QuickScreen employs AI to create brief exams, assessing candidate commitment and job-specific knowledge in under a minute.

IMPACT: Streamlines candidate selection, prioritizing individuals with a demonstrated understanding and enthusiasm for the role.

Features Implementation Overview

The screenshot displays a job listing interface. On the left is a navigation sidebar with links for Jobs, Events, Employers, Inbox (with a notification badge), and Career center. The main content area features the SimVentions logo and company name, followed by the job title 'Junior Software Developer [JUNIO002057]'. Below the title, it indicates the job was posted '1 week ago' and the application deadline is 'October 3, 2024 at 6 AM'. Action buttons for 'Save' and 'Apply Externally' are present, along with a 'Take Test' button. A resume match summary shows '11 of 22 keywords are present in your resume' and a '50% resume match'. Below this are four interactive cards with questions: 'What are the core responsibilities of this job?', 'What is the typical career path for someone in this role?', 'What specific programming languages and technologies should a candidate be proficient in for this role?', and 'Help me develop important leadership skills?'. An 'At a glance' section lists job details: 'Paid' (Medical, dental, and vision coverage plus paid time off), 'Onsite, based in Dahlgren, Virginia, United States' (Work in person from the location), 'Job' (Full-time), and 'US work authorization required'. At the bottom, specific details are listed: 'Location: Dahlgren, Virginia, USA', 'Telework: None', 'Clearance: Interim - Secret (US Citizenship Required)', 'Experience: 3-5 years of experience', and 'Number of Openings: 1'.

H

Jobs
Events
Employers
Inbox **1**
Career center

SimVentions
Internet & Software

Junior Software Developer [JUNIO002057]

Posted 1 week ago • Apply by October 3, 2024 at 6 AM

Save Apply Externally Take Test

H 11 of 22 keywords are present in your resume 50% resume match

What are the core responsibilities of this job?
What is the typical career path for someone in this role?
What specific programming languages and technologies should a candidate be proficient in for this role?
Help me develop important leadership skills?

At a glance

Paid
Medical, dental, and vision coverage plus paid time off

Onsite, based in Dahlgren, Virginia, United States
Work in person from the location

Job
Full-time

US work authorization required

Location: Dahlgren, Virginia, USA
Telework: None
Clearance: Interim - Secret (US Citizenship Required)
Experience: 3-5 years of experience
Number of Openings: 1

Feature-2 HANDY Implementation

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Jobs
Events
Employers
Inbox 1
Career center

SimVentions
Internet & Software

Answer

What specific programming languages and technologies should a candidate be proficient in for this role?

For this role, you should be proficient in programming languages and technologies such as Java, as it is mentioned in the qualifications that you should have experience in open source Java. Your resume shows proficiency in a variety of languages including React, React Native, Node.js, and Python, which can be beneficial. However, these are not explicitly mentioned in the job description. Experience with the Spring Boot framework and SQL is also required for this role. Your experience with AWS could be a bonus as it is mentioned as a 'nice to have' in the job description. Your resume shows extensive experience with AWS as well, so that should be a strong point for you.

Take Test

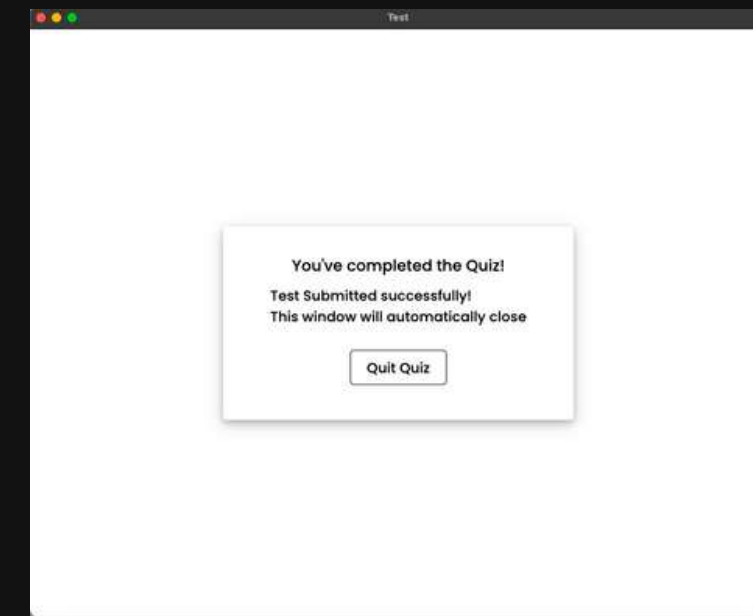
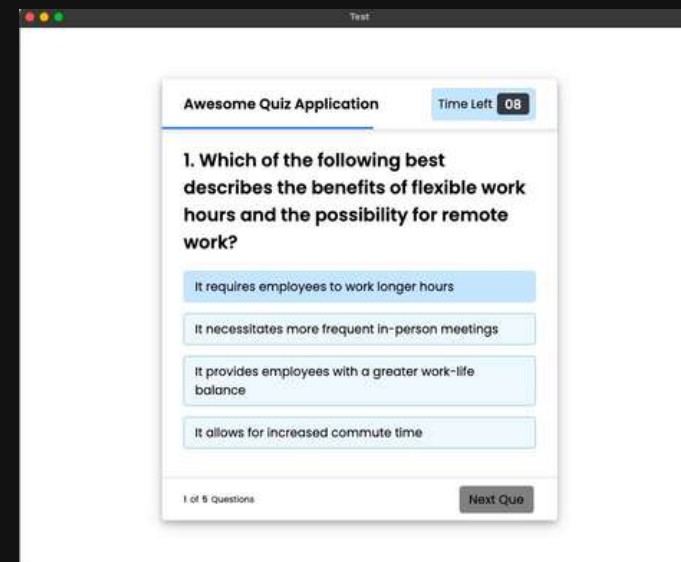
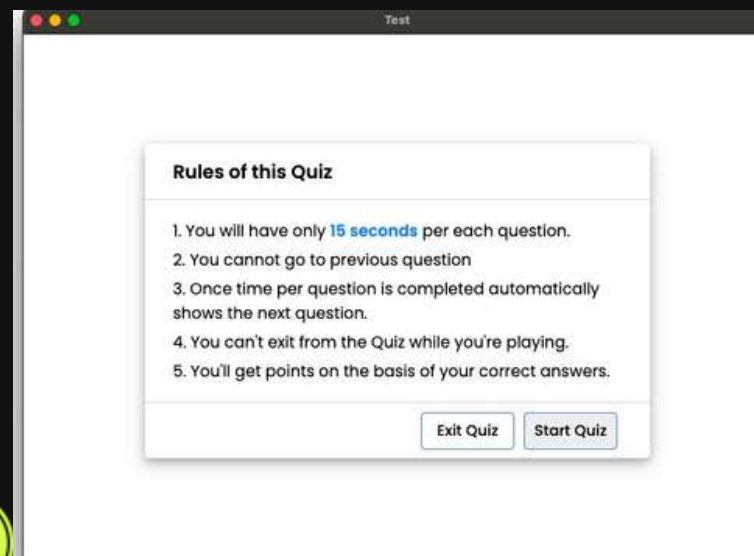
Help me develop important leadership skills?

Full-time

US work authorization required

Location: Dahlgren, Virginia, USA
Telework: None
Clearance: Interim - Secret (US Citizenship Required)
Experience: 3-5 years of experience
Number of Openings: 1

Feature-3 QuickScreen Implementation



Tech Stack

1. Flask

Use: Serves as the web framework for building the backend of the application. It's lightweight, flexible, and suitable for setting up RESTful APIs.

Purpose: Flask is chosen for its simplicity and efficiency in creating web applications and services. Its lightweight nature allows for quick development and deployment.

2. CORS (Cross-Origin Resource Sharing)

Use: Integrated with Flask to handle cross-origin requests, enabling the frontend to safely interact with the backend hosted on a different domain.

Purpose: Essential for web applications to allow or restrict resource sharing across different domains, ensuring security and proper functionality of web services.

Tech Stack

3. LangChain (OpenAI and MistralAI)

Use: Provides interfaces to interact with AI models for natural language processing tasks, such as chatbots or text generation.

Purpose: Enables the application to leverage state-of-the-art AI models for analyzing job descriptions, generating text, and providing insights, enhancing the app's capabilities with AI-driven functionalities.

4. Pydantic

Use: Used for data validation and settings management through Python type annotations, ensuring the integrity of data used across the application.

Purpose: Helps in creating more reliable, error-resistant code by enforcing type checks and data validation, crucial for applications dealing with complex data structures.

Tech Stack

5. dotenv

Use: Manages environment variables for the project, allowing the application to access configuration variables in a secure and organized manner.

Purpose: Ensures sensitive information like API keys is kept secure and makes the application more adaptable to different environments, aiding in deployment and development processes.

6. Python Standard Libraries (e.g., os, typing, random)

Use: Offers a wide range of functionalities, from interacting with the operating system to providing type annotations and generating random sequences.

Purpose: These libraries are foundational to Python programming, facilitating file operations, environment interactions, data manipulation, and more, supporting the application's core functionalities.

Tech Stack

7. spaCy

Use: A powerful and efficient library for advanced natural language processing. In your project, it's specifically utilized to load the medium-sized English language model (en_core_web_md), which includes word vectors, syntax, entities, and more.

Purpose: spaCy is chosen for its high performance and accuracy in processing and understanding natural language text. It supports a wide range of NLP tasks such as tokenization, named entity recognition (NER), part-of-speech (POS) tagging, and dependency parsing. By leveraging spaCy, your project benefits from deep linguistic analysis to enhance the processing and understanding of job descriptions, enabling more sophisticated features like semantic analysis, entity extraction, and similarity assessments.

Thank You

Let's

democratize

access to

opportunity



Our Team



Sai Kiran



Tharun



Sree Divya



Sreeram



Sai Vivek