

# Update 1 – Progress Report

CSE 499A: Senior Design I — Section: 15 — Group: 03

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**Abstract**—Our project, “JobCore: AI Agent to Get Your Job,” automates and leverages artificial intelligence to streamline the entire job application process. It simplifies job discovery and resume optimization, fills applications automatically, and creates AI-powered mock interview scenarios. JobCore provides users with job-matching insights, ATS-optimized resume enhancement, and personalized interview practice experiences—making the job-seeking process more efficient, personalized, and faster.

## I. COMPLETED TASKS

- Studied existing tools like Wonderin AI, Obscan, and VMock.
- Completed the project proposal report and presentation slides.
- Conducted an initial literature review on job automation, resume optimization, and AI mock interviewing tools.
- Set up the project development environment and GitHub repository.
- Researched integration methods for job search.
- Designed and implemented the frontend UI/UX system, including:
  - Login Page
  - Sign Up Page
  - User Dashboard
  - User Profile

## II. WORK IN PROGRESS

- Learning Langgraph, Python, and ReactJS.
- Refining frontend UI/UX for job search agent and mock interview modules.
- Setting up and connecting backend APIs for authentication and data storage.
- Testing user data persistence and validation for login and sign-up modules using Firebase.
- Integrating database management with MongoDB and Firebase for user records.

## III. NEXT TARGETS

- Finalize frontend design for job search UI, AI mock interview, and resume checker pages.
- Implement user authentication and two-factor authentication (2FA) for enhanced security.
- Continue backend integration with the user profile system.

## IV. CHALLENGES

- Managing time between learning and implementation.
- Designing a modern and smooth UI/UX.
- Resolving GitHub-related issues during collaboration.

## REFERENCES

- [1] Wonderin AI: Job Automation Platform. [Online]. Available: <https://wonderin.ai>
- [2] VMock: Smart Career Assistant. [Online]. Available: <https://www.vmock.com>
- [3] Obscan: Resume Optimization and AI Insights. [Online]. Available: <https://obscan.io>