EECE 571G Project

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# Introduction

The job search process can be a daunting and exhausting task for prospective employees. Meanwhile, recruiters also complain that it is challenging to find the right candidate with desired qualifications. To make job hunting easier and more convenient on both sides, many online websites and mobile apps, such as LinkedIn, Indeed, Glassdoor, CareerBuilder, etc. are developed to allow job seekers to post their resumes and employers to post jobs. However, current job search apps do little to confirm the validity of the information submitted by job candidates, leading to distrust of the applicants’ personal records. To solve this problem, we use blockchain technology to develop a job search system, which helps to create a verifiable and immutable chain of personal records. With this platform, we believe trust and transparency in the job search process can be improved.

# Problem Statement

What are the problems of existing job hiring apps?

For traditional recruitment platforms, job seekers are required to fill in or upload their educational background and personal experience. However, these experiences may be fabricated or difficult to prove. Therefore, employers need to verify and validate the education or work experience of candidates, as well as pay for background checks.

In addition, job seekers need to fill in personal experience information on various platforms when looking for a job, which is quite inconvenient and risky.

Why do we need to use the blockchain?

* Higher Reliability

Job seekers’ basic information including but not limited to education background and work experience, can be stored on the blockchain. Once been verified, the profile cannot be tampered with.

* Enhanced Security

Once personal information is on the chain, it is not limited to a single organization or a specific paper endorsement. It is owned by the job seeker, which prevents unauthorized information be shared in any way.

* Improved Traceability

When a personal experience is recorded on the blockchain, there is an audit trail at the end that shows when the job seeker added it and who the verifier was. This historical data can help verify the authenticity of a personal experience and provide a detailed summary of the job seeker.

# Requirement

## Functional requirements for applicants:

* A1: Applicants can register a new account using their name and email address
* A2: Applicants can post their work and study experiences
* A3: Applicants can ask for a verification on their experiences
* A4: Applicants can set their status of whether they are actively looking for a job

## Functional requirements for companies:

* F1: Companies can register a new account using their contact information
* F2: Companies can verify the applicants’ experiences if they are the previous employees
* F3: Companies can search for candidates that matches their requirements and get their information

## Functional requirements for Platform administrators

* P1: Platform administrators can manually verify applicants’ experiences if the company is not available on the platform

# Use Cases

