Smart Contract Functions

addVerifiedEmployer

This function is used to add an address as an employer. This function can only be called by the owner of the contract. It takes in two parameters like employer address and employer name. Each address mapped to a unique number.

addPerfMatrix

This function is used to add the performance matrix of a candidate who enrolled for the job. It takes in four parameters like employer address, candidate address, enrolled job id and evaluation score. This function is restricted to the corresponding address of the employer who offered the job. The performance matrix which has been entered is mapped to the specific job id.

addCandidate

This function is used to enroll the candidate for a particular job. It takes in five parameters like, applied job id, name of the candidate, age of the candidate, phone number of the candidate and qualification of candidate. This function only adds the candidate if the job status is open. The entered details of the candidate is mapped to the job id.

addJob

This function is used to add a job by the verified employer. It takes in six parameters like, employer verification id, company name, job title, location, job type and reward. Each job is mapped to a unique number. This function also emits the data for future reference.

changeJobStatus

This function is used internally to change the status of the job. It takes in only a parameter which represents the job id.

getJob

This function is used to retrieve the jobs written in blockchain. It takes in a parameter, job id, to find the details of the job. It requires the input to be a valid input else no data will be returned. It gives out data fields like, employer address, job id, company name, job title, location, job type and reward.

getJobDetails

This function is used to retrieve the specific job details. It takes in a parameter, job id, for which the data is returned. It reruns data like employer address and reward.

getAllJobs

This function is used to return the total number of jobs written in the blockchain. It returns a single field of data, total number of jobs.

getCandidate

This function is used to retrieve the candidate details. It takes in a parameter, candidate, for which the data is returned. The returned data includes the applied job id, applied candidate address, name of the candidate, age of the candidate, phone number of the candidate, qualification of the candidate.

getAllVEmployers

This function is used to retrieve the total number of verified employers. The function returns only one data, number of verified employers.

getVerifiedEmployer

This function is used to return the details of the verified employer. It takes in one parameter, employer verification id, to retrieve the data. The function requires the parameter to be valid else no data is returned. The returned data includes employer id, employer address and employers name.

getPerfMatrix

This function is used to retrieve the performance matrix of the candidate. It takes in one parameter job id for which the data is returned. The returned data includes the candidate address, employer address, enrolled job id, evaluation score of the candidate.