

```

classDiagram
    class Industries {
        <<data type>>
    }
    class Contracts {
        <<data type>>
        +internship
        +CDI
        +CDD
        +part time
    }
    class Cities {
        <<data type>>
    }
    class Functions {
        <<data type>>
    }
    class Companies {
        -business_name: string
        -industry: Industries
        -bio: text
        -headquarters: list
        -specialities: list
        -links: list
        +create(operator: Operators): boolean
    }
    class Operators {
        -job: string
        -industry: Industries
        -bio: text
        -links: list
    }
    class Admins {
        +restrictAccess(user: Users): boolean
        +validate(post: Posts): boolean
    }
    class Users {
        -fullname: string
        -email: string
        -password: string
        +signup(): boolean
        +login(): boolean
        +send(message: Messages): boolean
        +receive(out notification: Notifications): Notifications
        +receive(out message: Messages): Messages
    }
    class Messages {
        -message: text
    }
    class Notifications {
        -notification: string
    }
    class Medias {
        -URL: string
    }
    class Posts {
        -title: string
        -description: text
        -industry: Industries
        -function: Functions
        -location: Cities
    }
    class PostTags {
    }
    class Tags {
        -tag: string
    }
    class ServiceOffers {
        -price: float
    }
    class ServiceRequests {
    }
    class JobRequests {
        -study_level: string
        -min_salary: float
        -max_salary: float
    }
    class JobOffers {
        -study_level: string
        -min_salary: float
        -max_salary: float
        -deadline: datetime
    }
    class Reviews {
        -rate: int
        -review: text
    }
    class Visitors {
        +rate(freelancer: Freelancers): boolean
    }
    class Employees {
        -job: string
        -industry: Industries
        -bio: text
        -links: list
        +publish(post: Posts): boolean
        +rate(company: Companies): boolean
        +applyFor(jobOffer: JobOffers): boolean
    }
    class Applications {
        -files: string
    }
    Companies "1" -- "0..*" Reviews : -has
    Operators "1" -- "0..*" Reviews : -belongsTo
    Freelancers "1" -- "0..*" Reviews : -belongsTo
    Operators --|> Users
    Admins --|> Users
    Visitors --|> Users
    Employees --|> Users
    Messages ..> Users
    Notifications ..> Users
    Medias "1" -- "0..*" Posts : -belongsTo
    Posts "1" -- "1..*" Medias : -has
    Posts "1" -- "1..*" Tags : -belongsTo
    Tags "1..*" -- "1..*" Posts : -has
    ServiceOffers --|> Posts
    ServiceRequests --|> Posts
    JobRequests --|> Posts
    JobOffers --|> Posts
    JobOffers "1" -- "1..*" Applications : -has
    Applications "1..*" -- "1..*" JobOffers : -belongsTo
    Reviews "0..*" -- "0..*" Employees : -belongsTo
    Employees "1" -- "1" Notifications : -has
    
```



