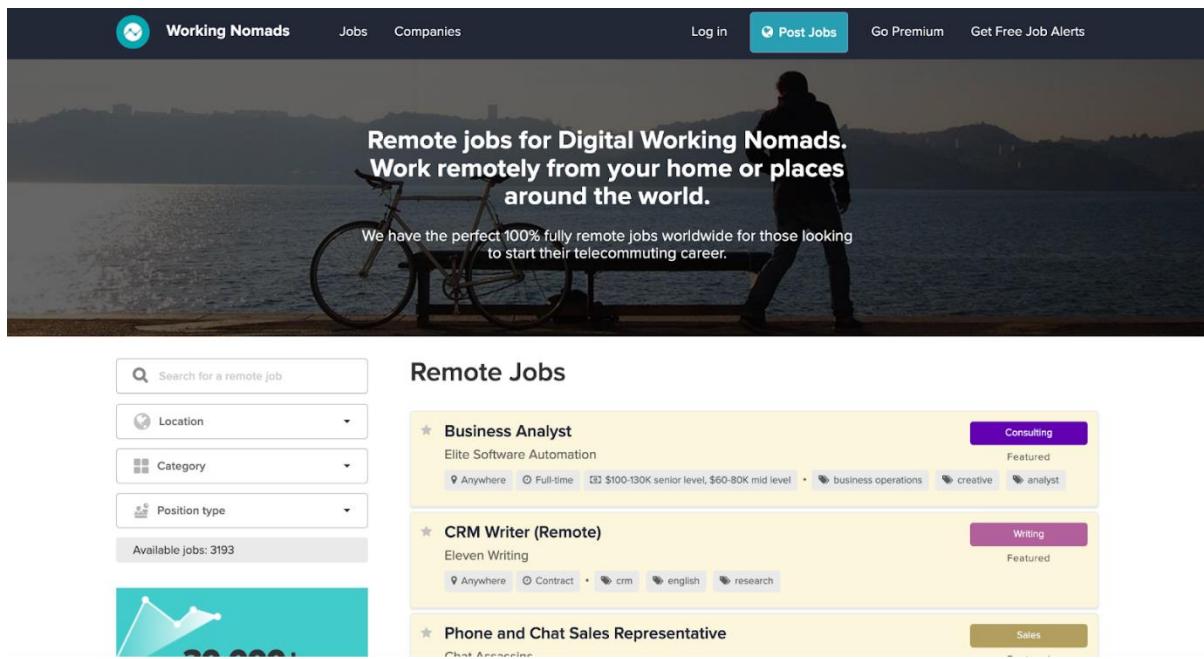


Assignment: Job Listing Scraper (Working Nomads)

Task is to develop a scraper for the website (<https://www.workingnomads.com/jobs>) [Working Nomads] using either NodeJS with Puppeteer or Python with BeautifulSoup.



The primary goal is to extract job listings and detailed job descriptions, along with comprehensive company information. The scraped data should be output in JSON format to the console, and additionally, stored optimally in a DynamoDB database.

Requirements:

1. Language & Libraries:

- Option 1: NodeJS with Puppeteer (**Recommended**)
Option 2: Python with BeautifulSoup

2. Functionality:

Scrape job listings from the homepage and navigate to the detailed job description page for each listing.

Extract all available details about the job, including:

- Job title
- Company name
- Job location
- Description URL

- Detailed description (from the Individual job's page)

Extract comprehensive company information where available, including:

- Company website
- Company logo URL
- Company description
- Company funding information
- Any other information that's available on the page

3. Performance

The script should be efficient and structured to run smoothly in a local environment for the assignment. It should also be designed to run in AWS Lambda deployment, which means your code should be lightweight, less resource intensive and use minimal dependencies.

4. Data Storage

For local running, simply print data to the console. However, bonus points if you can provide a function that can store the details in a DynamoDB table that avoids de-duplication (jobs should be scraped first, then job details should be fetched and stored, and then company details should be fetched and stored).

Libraries Used:

1. Puppeteer: Puppeteer is a Node library that provides a high-level API to control headless Chrome or Chromium over the DevTools Protocol. It's used for web scraping and automation tasks. In this project, Puppeteer is utilized to navigate through web pages, interact with elements, and extract job listing data from the Working Nomads website.

2. AWS SDK for JavaScript: The AWS SDK for JavaScript provides APIs for various AWS services, allowing developers to interact with AWS resources programmatically. In this project, it's used to interact with DynamoDB, AWS's NoSQL database service. The SDK enables operations like putting items into DynamoDB tables and querying data from them.

3. uuid: The uuid library generates unique identifiers (UUIDs) based on RFC4122 and DCE 1.1: Authentication and Security Services. UUIDs are often used to assign unique identifiers to data records in databases. In this project, the uuid library is used to generate unique identifiers for each job listing, which can be useful when storing data in DynamoDB.

Code Explanation:

```
Scraper/
|
├── node_modules/
└── database/
    ├── createTable.js
    └── utils/
        ├── scraper.js
        ├── descriptionScraper.js
        └── companyWebsiteScraper.js
|
└── app.js
└── package.json
└── package-lock.json
```

createTable.js

```
const AWS = require('aws-sdk');

AWS.config.update({ region: 'us-east-1' });

const dynamodb = new AWS.DynamoDB();

const params = {
  TableName: 'Jobs',
  KeySchema: [
    { AttributeName: 'id', KeyType: 'HASH' },
  ],
  AttributeDefinitions: [
    { AttributeName: 'id', AttributeType: 'S' },
  ],
  ProvisionedThroughput: {
    ReadCapacityUnits: 5,
    WriteCapacityUnits: 5
  }
}
```

```
};

dynamodb.createTable(params, (err, data) => {
  if (err) {
    console.error('Error creating table:', err);
  } else {
    console.log('Table created successfully:', data);
  }
});
```

This script utilizes the AWS SDK to programmatically create a DynamoDB table named "Jobs" with a primary key attribute named "id". It begins by configuring the AWS region to 'us-east-1', ensuring that the DynamoDB table is created in the specified geographical region. Then, it defines the table's parameters including the table name, primary key schema, attribute definitions, and provisioned throughput for read and write operations.

Once the parameters are set, the script calls the `createTable()` method on the DynamoDB instance, passing the defined parameters. If the table creation is successful, a message indicating the successful creation is logged to the console. Conversely, if any error occurs during the table creation process, it is caught and logged, providing visibility into any potential issues encountered during the operation. This script streamlines the process of creating a DynamoDB table programmatically, enabling developers to automate the setup of database resources within their AWS environment.

About Database:

DynamoDB is a fully managed NoSQL database service provided by AWS. In the provided code, the AWS SDK for JavaScript is used to interact with DynamoDB. Before using DynamoDB, it needs to be configured with AWS credentials and the desired region. This is done using `AWS.config.update({ region: 'us-east-1' })`, where 'us-east-1' is the AWS region.

1. Creating a DynamoDB Table:

- The `AWS.DynamoDB()` constructor creates a new instance of the DynamoDB service.
- `const params` defines the parameters for creating a table. It includes the table name, key schema, attribute definitions, and provisioned throughput capacity.

- The key schema specifies the primary key attributes for the table. In this case, 'id' is used as the hash key.
- Attribute definitions define the attributes' names and types used in the key schema.
- Provisioned throughput defines the capacity units for read and write operations.
- `dynamodb.createTable(params, (err, data) => { ... })` is used to create the table with the specified parameters. It takes a callback function that handles the response or error returned by the operation.

2. Inserting Data into DynamoDB Table:

- Inside the main() function, job data is scraped from the Working Nomads website, and then each job's details are inserted into the DynamoDB table.
- A unique identifier (id) is generated for each job using the `uuidv4()` function from the `uuid` package.
- The job details are stored in the job object.
- `dynamodb.put(params).promise()` is used to put the job data into the DynamoDB table. It returns a promise, which is awaited to ensure the operation completes before moving to the next job.

3. Table Structure and Data Insertion:

- The DynamoDB table named 'Jobs' is created with a primary key 'id' of type string.
- Each job listing scraped from the website is inserted into this table. The job details are stored as items in the table, where each item corresponds to a job listing.
- The job's unique identifier ('id') serves as the primary key for each item in the table.

Overall, the code sets up a DynamoDB table named 'Jobs', defines its structure, and inserts scraped job data into it. This allows for efficient storage and retrieval of job listings from the Working Nomads website.

app.js

```
const scrapeData = require('./utils/scrapers');
const scrapeDescription = require('./utils/descriptionScrapers');
const companyWebsiteScraper = require('./utils/companyWebsiteScrapers');
const AWS = require('aws-sdk');
```

```

const fs = require('fs');
const { v4: uuidv4 } = require('uuid');
const url = "https://www.workingnomads.com/jobs";

AWS.config.update({ region: 'us-east-1' });
const dynamodb = new AWS.DynamoDB.DocumentClient();

async function main() {
  try {
    const scrapedData = await scrapeData(url);

    for (let i = 0; i < scrapedData.length; i++) {
      const job = scrapedData[i];

      const Description = await
scrapeDescription(job.jobDescriptionUrl);
      job.Description = Description;

      const { logoUrl, description: companyDescription } = await
companyWebsiteScraper(job.companyWebsite);
      job.companyLogoUrl = logoUrl;
      job.companyDescription = companyDescription;

      job.id = uuidv4(); // Using uuidv4 from uuid package
      const params = {
        TableName: 'Jobs',
        Item: job
      };
      await dynamodb.put(params).promise();
    }
    fs.writeFileSync('scrapedData.json', JSON.stringify(scrapedData, null,
2));
    console.log(scrapedData);
  } catch (error) {
    console.error('Error:', error);
  }
}

main();

```

This script is a Node.js application designed to scrape job listings from the Working Nomads website, extract detailed job descriptions and comprehensive company information, and store the data in both a JSON file and a DynamoDB database. It begins by importing necessary modules such as scraper, descriptionScraper, and companyWebsiteScraper for extracting data from the website, aws-sdk for interacting

with AWS services, fs for file system operations, and uuid for generating unique identifiers.

The main() function is asynchronous and serves as the entry point for the script. Inside the function, it first invokes the scrapeData() function to obtain an array of job listings from the Working Nomads website. It then iterates over each job listing, enriching the data by fetching detailed job descriptions and company information asynchronously. Once all the necessary data is collected, it generates a unique identifier for each job using uuidv4() and constructs parameters for putting items into the DynamoDB table. Finally, it writes the scraped data to a JSON file and logs it to the console. Any encountered errors during the execution are caught and logged to the console for debugging purposes. Overall, this script automates the process of scraping job listings, enriching the data, and storing it in a persistent database.

scraper.js

```
const puppeteer = require('puppeteer');

async function scrapeData(url) {
    const browser = await puppeteer.launch();
    const page = await browser.newPage();

    await page.goto(url);
    await page.waitForSelector('.jobs-list');

    const jobs = await page.evaluate(() => {
        const jobElements = document.querySelectorAll('.jobs-list > .ng-
scope');
        const jobData = [];

        jobElements.forEach(job => {
            const jobType = job.querySelector('.category')?.textContent.trim() ||
'NA';
            const jobTitle = job.querySelector('h4 a')?.textContent.trim() ||
'NA';
            const jobLocation = job.querySelector('.box .fa-map-marker +
span')?.textContent.trim() || 'NA';
            const jobDescriptionUrl = job.querySelector('h4 a')?.href || 'NA';
            const companyName = job.querySelector('.company
a')?.textContent.trim() || 'NA';
            const companyWebsite = job.querySelector('.company a')?.href ||

'NA';

            jobData.push({
                jobType,
```

```
        jobTitle,
        jobLocation,
        jobDescriptionUrl,
        companyName,
        companyWebsite
    });
});

return jobData;
});

await browser.close();
return jobs;
}

module.exports = scrapeData;
```

This script is a Node.js module that utilizes Puppeteer, a headless browser automation library, to scrape job listing data from a specified URL. It exports a function named `scrapeData` that takes a URL as input and returns a Promise that resolves to an array of job objects.

Here's a breakdown of what the script does:

- It imports the Puppeteer library using `require('puppeteer')`.
- The `scrapeData` function is defined with an `async` keyword, indicating that it will perform asynchronous operations.
- Inside the function, Puppeteer is launched using `puppeteer.launch()`, creating a headless browser instance.
- A new page is opened in the browser with `browser.newPage()`.
- The page navigates to the specified URL using `page.goto(url)`.
- It waits for the selector `.jobs-list` to be present on the page using `page.waitForSelector('.jobs-list')`.
- Once the selector is available, it extracts job listing data by evaluating JavaScript code within the page context using `page.evaluate()`.
- Within the evaluation function, it selects job elements using `document.querySelectorAll('.jobs-list > .ng-scope')`.

For each job element, it extracts relevant information such as job type, title, location, description URL, company name, and company website.

The extracted data is then pushed into an array named `jobData`. Finally, the browser is closed with `browser.close()` and the array containing job data is returned. Overall, this

script automates the process of navigating to a webpage, extracting job listing data using Puppeteer's scraping capabilities, and returning the data as an array of objects.

descriptionScraper.js

```
const puppeteer = require('puppeteer');

async function scrapeDescription(url) {
  const browser = await puppeteer.launch();
  const page = await browser.newPage();

  await page.goto(url);
  await page.waitForSelector('p');

  const description = await page.evaluate(() => {
    const paragraphs = Array.from(document.querySelectorAll('p'));
    return paragraphs.map(p => p.textContent.trim());
  });

  await browser.close();
  return description;
}

module.exports = scrapeDescription;
```

This script utilizes Puppeteer, a Node.js library for automating web browser interactions, to scrape detailed job descriptions from a specified URL. It's designed to be a reusable module that can be integrated into larger applications for web scraping tasks.

The main function in the script is `scrapeDescription`, which is defined as an asynchronous function. It first launches a headless browser instance using `puppeteer.launch()` and opens a new page with `browser.newPage()`. Then, it navigates to the provided URL using `page.goto(url)`.

Once the page is loaded, the script waits for the selector '`p`', which represents paragraph elements, to become available on the page using `page.waitForSelector('p')`. This ensures that the script waits until the job description content is fully loaded before attempting to scrape it.

After the selector is available, the script extracts the text content of all paragraph elements using `page.evaluate()`. Within the evaluation function, it selects all paragraph elements using `document.querySelectorAll('p')`, converts the resulting NodeList into an array using `Array.from()`, and then maps over the array to extract the trimmed text content of each paragraph.

Finally, the script closes the browser with `browser.close()` and returns an array containing the text content of the job description paragraphs. This function can be imported and used in other Node.js modules to efficiently scrape job descriptions from various websites.

companyWebsiteScraper.js

```
const puppeteer = require('puppeteer');

async function companyWebsiteScraper(url) {
    const browser = await puppeteer.launch();
    const page = await browser.newPage();

    try {
        await page.goto(url);

        // Try to scrape logo URL with a shorter timeout
        let logoUrl = null;
        try {
            await page.waitForSelector('.company-attributes-logo img', {
                timeout: 5000 });
            logoUrl = await page.evaluate(() => {
                const imgElement = document.querySelector('.company-
attributes-logo img');
                return imgElement ? imgElement.src : null;
            });
        } catch (error) {
            logoUrl = null;
        }

        // Try to scrape description with a shorter timeout
        let description = [];
        try {
            await page.waitForSelector('p', { timeout: 5000 });
            description = await page.evaluate(() => {
                const paragraphs = Array.from(document.querySelectorAll('p'));
                return paragraphs.map(paragraph => paragraph.textContent);
            });
        } catch (error) {
            description = [];
        }
    }

    await browser.close();
    return { logoUrl, description };
}
```

```

        return paragraphs.map(p => p.textContent.trim());
    });
} catch (error) {
    description = [];
}

return { logoUrl, description };
} catch (error) {
    return { logoUrl: null, description: [] };
} finally {
    await browser.close();
}
}

module.exports = companyWebsiteScraper;

```

This script employs Puppeteer, a Node.js library for automating web browser interactions, to scrape information from a given company website URL. It's structured as an asynchronous function named companyWebsiteScraper, intended to be reusable for extracting company logo URLs and descriptions.

Upon invocation, the function launches a headless browser instance using puppeteer.launch() and initializes a new page with browser.newPage(). It then attempts to navigate to the provided URL using page.goto(url).

Inside a try-catch block, the script makes two attempts to scrape information from the webpage: logo URL and company description. Each attempt has its own timeout set to 5000 milliseconds (5 seconds) to ensure that the scraping process doesn't hang indefinitely.

Logo URL scraping: It waits for the selector .company-attributes-logo img to become available on the page with a maximum timeout of 5 seconds. If found, it extracts the src attribute of the image element representing the company logo using page.evaluate(). If not found or if an error occurs, it sets logoUrl to null.

Description scraping: Similarly, it waits for paragraph elements ('p') to become available with a timeout of 5 seconds. If found, it extracts the text content of all paragraph

elements on the page, trims any leading or trailing whitespace, and stores the resulting array of strings in the description variable. If not found or if an error occurs, it sets description to an empty array.

The function returns an object containing the scraped logoUrl and description. If any error occurs during the scraping process, it catches the error and returns default values (null for logoUrl and an empty array for description). Finally, it ensures that the browser instance is properly closed using browser.close() in the finally block.

scrapedData JSON File

```
[  
  {  
    "jobType": "Development",  
    "jobTitle": "Senior Java Full-stack Developer",  
    "jobLocation": "Europe, UK, Latin America, Canada, APAC",  
    "jobDescriptionUrl": "https://www.workingnomads.com/jobs/senior-java-full-  
stack-developer-lemonio",  
    "companyName": "Lemon.io",  
    "companyWebsite": "https://www.workingnomads.com/remote-company/lemonio",  
    "Description": [  
      "",  
      "We are Lemon.io, the marketplace that connects you with hand-picked  
      startups in the US and Europe. We also have a project, Lemon Hire, which helps  
      us find relevant candidates for our clients who focus on direct hire.",  
      "Currently, we are looking for a Senior Java & React Full-stack  
      Developer for our client. The client would like to cooperate with the Software  
      Engineer directly, so it's an in-house hire. Their hiring focus is on Software  
      Engineers from European countries.",  
      "If you are a Senior Software Engineer (Java & React) from other  
      regions, are interested in cooperating with Lemon.io, and would like to join  
      our marketplace, you have relevant technical skills and knowledge, you can  
      also apply, and we will contact you when we have a relevant project for your  
      skills.",  
      "Our typical rate for a Senior React & Java Full-stack Developer is from  
      $5k to $8.4k, but the rate for this project is from $5k up to $11.5k.",  
      "INVOLVEMENT: 40h / week",  
      "PROJECT TYPE: Full-time",  
      "DURATION: 7+ months (ongoing)",  
      "CLIENT TIMEZONE: +2 GMT",  
    ]  
  }]
```

"Must-have skills: React, Java",
"Nice to have skills: Jenkins, Kubernetes, Kotlin",
"Nice to have experience in/with: e-learning, logistics, maritime",
"Hand-On full stack development of innovative applications. Owning the entire development cycle, including design, architecture, development, and DevOps. Working in XP with Remote pairing. Expertise with medium-large operational websites is preferred. This is a long-term position with the potential to become ongoing.",

"If your experience matches with our requirements be ready for the next steps:",

"It will take up to 10 minutes, you need to watch a short video where you will learn more details about how we work.",

"P.S. Lemon.io as a marketplace works with developers from 50+ countries in different regions: Europe, LATAM, Asia (Philippines, Indonesia), Oceania (Australia, New Zealand, Papua New Guinea), Canada and the UK. However, we have some exceptions.",

"At the moment, we don't have a legal basis to accept applicants from certain European countries: Belarus, Iceland, Liechtenstein, Kosovo, Russia and Serbia. Additionally, there are a few countries in Latin America from which we cannot accept applicants: Cuba and Nicaragua, as well as most Asian countries. Furthermore, we are unable to accept applicants from Africa.",

"Please note that due to the overwhelming number of applications, only suitable candidates will be contacted for an interview.",

"We strongly ask you to send your CVs in ENGLISH. Application in English will be considered first. Good luck to everyone!",

"Vs in ENGLISH. Application in English will be considered first. Good luck to everyone!",

"",
"""
"""
""",

"We are Lemon.io, the marketplace that connects you with hand-picked startups in the US and Europe. We also have a project, Lemon Hire, which helps us find relevant candidates for our clients who focus on direct hire.",

"Currently, we are looking for a Senior Java & React Full-stack Developer for our client. The client would like to cooperate with the Software Engineer directly, so it's an in-house hire. Their hiring focus is on Software Engineers from European countries.",

"If you are a Senior Software Engineer (Java & React) from other regions, are interested in cooperating with Lemon.io, and would like to join our marketplace, you have relevant technical skills and knowledge, you can also apply, and we will contact you when we have a relevant project for your skills.",

"Our typical rate for a Senior React & Java Full-stack Developer is from \$5k to \$8.4k, but the rate for this project is from \$5k up to \$11.5k.",

"INVOLVEMENT: 40h / week",
"PROJECT TYPE: Full-time",
"DURATION: 7+ months (ongoing)",
"CLIENT TIMEZONE: +2 GMT",

"Must-have skills: React, Java",
"Nice to have skills: Jenkins, Kubernetes, Kotlin",
"Nice to have experience in/with: e-learning, logistics, maritime",
"Hand-On full stack development of innovative applications. Owning the entire development cycle, including design, architecture, development, and DevOps. Working in XP with Remote pairing. Expertise with medium-large operational websites is preferred. This is a long-term position with the potential to become ongoing.",
"If your experience matches with our requirements be ready for the next steps:",
"It will take up to 10 minutes, you need to watch a short video where you will learn more details about how we work.",
"P.S. Lemon.io as a marketplace works with developers from 50+ countries in different regions: Europe, LATAM, Asia (Philippines, Indonesia), Oceania (Australia, New Zealand, Papua New Guinea), Canada and the UK. However, we have some exceptions.",
"At the moment, we don't have a legal basis to accept applicants from certain European countries: Belarus, Iceland, Liechtenstein, Kosovo, Russia and Serbia. Additionally, there are a few countries in Latin America from which we cannot accept applicants: Cuba and Nicaragua, as well as most Asian countries. Furthermore, we are unable to accept applicants from Africa.",
"Please note that due to the overwhelming number of applications, only suitable candidates will be contacted for an interview.",
"We strongly ask you to send your CVs in ENGLISH. Application in English will be considered first. Good luck to everyone!",
"Vs in ENGLISH. Application in English will be considered first. Good luck to everyone!",
"
"
"
"Working Nomads curates remote digital jobs from around the web.",
"© 2024 Working Nomads."
,
"companyLogoUrl":
https://www.workingnomads.com/media/logos/Lemon_io.png,
"companyDescription": [
"
"
"Lemon.io is an Online job-matching solution for developers. The platform allows reviewing resumes, background verification via reputation sanctions, assessment & interviewing tools for shortlisting candidates, and hiring. It is a tool available on the subscription-based pricing model. Lemon.io connects early-stage startups with vetted offshore engineers. They spend a lot of time with developers and dev shops before accepting them into the community. When a startup comes to them with an open role, they offer the candidate who is the best fit for it.",
"
" Remote Work Flexibility",
" Competitive Compensation",
" Professional Growth",

```
"Flexible Schedule",
"Impactful Projects",
"Supportive Community",
"Virtual Team Events",
"Health and Wellness",
"Cutting-edge Tools",
"Global Opportunities",
"Working Nomads curates remote digital jobs from around the web.",
"© 2024 Working Nomads."
],
"id": "a590031f-ae32-45ef-842f-d2504f026977"
},
{
  "jobType": "Development",
  "jobTitle": "Senior Blockchain Engineer",
  "jobLocation": "NA",
  "jobDescriptionUrl": "https://www.workingnomads.com/jobs/need-senior-blockchain-engineer-playfly",
  "companyName": "Playfly",
  "companyWebsite": "https://www.workingnomads.com/remote-company/playfly",
  "Description": [
    "",
    "We are based in New York and we're looking for the world's most effective developers that are also a cultural fit to work with us on projects that increase Human Agency.",
    "We are looking for the best of the best. People who love what they do and are legitimately excellent at it.",
    "Is this you?",
    "If you answered this with an unequivocal yes, then it might not be the best fit.",
    "We also want people who understand that no one knows everything, don't have egos, understand their own shortcomings and are excited to grow.",
    "We want people who are badass but also humble and care about helping their team. We want people who get shit done and give a shit. We want people who don't care about titles but care about results.",
    "We are asking for a lot. What we can offer you?",
    "- A legitimate meritocracy. We don't care if you fancy huh, we care if you are actually good at your job. Been passed over for the guy who's great at talking to the EVP about how you just need to move to microservices but just pushed several critical bugs to production? That will not happen here.",
    "- The ability to work with other people like you. And the joy of not having to work with people who aren't - no shitty devs, assholes, or devs who spend 2 hours a day working and 6 hours on TikTok and spreading office gossip.",
    "- An intensive onboarding bootcamp where you will be challenged, tested, and learn a ton. While we don't like firing people or having them quit, we care more about guaranteeing #2 and this process is meant to weed people out who aren't a fit.",
  ]
}
```

"- A highly supportive atmosphere. We have a high standard for performance, but we will do everything we can to help each individual attain it. Everyone at all levels of the company is willing to pitch in and provide advice, mentorship, or even jump in to get our hands dirty coding, organizing the backlog, or talking to",

"clients when a team needs extra support. We're in this together.",

"- The ability to work on some of the most exciting technical and product challenges that exist today. We work with clients, who bring us in to work on their most critical and important tasks because they know we can deliver and on our own internal projects which solve real needs. We also work on complex blockchain",

"projects with legitimate use cases. We also build best-in-class web and mobile applications and have some of the world's best data scientists.",

"- The ability to work on a range of projects in different fields, industries, and stacks for companies ranging from early-stage startups to enterprise.",

"- Competitive pay with regular performance-based raises and other fun stuff including company retreats, a really nice office, health and pet insurance, a cake to embarrass you on your birthday, etc.STACK",

"You will be working mostly with JavaScript and libraries/frameworks in its ecosystem.",

"- JavaScript / TypeScript",

"- React / Angular / Nullstack",

"- Node / Next.js / Apollo",

"- EVMs / Solidity",

"- Flow / Cadence",

"- Solana / Metaplex / Rust",

"- Truffle / Hardhat",

"- web3.js / ethers.js",

"- Everything else in the JavaScript ecosystem",

"YOU WILL",

"- Work Full-time.",

"- Work with a 10x dev team.",

"- Work in internal projects and client projects.",

"- Build projects with a product focused mentality while keeping your code clean.",

"- Build modern, efficient apps and test that they work correctly.",

"- Constantly communicate with clients.",

"- Review pull requests from other members of the team.",

"- Have a founder mentality and proactively solve problems.",

"- Wear any hats needed to get the job done.",

"About You",

"- Ability to communicate effectively and work exclusively in English. (This is a must)",

"- A minimum of 5+ years of programming experience with our stack.",

"- realizing in the middle of the night you forgot a major edge case that you can't believe hasn't burned you yet and need to fix asap",

"- git blaming some shitty code and realizing it was you, deciding to never git blame again",

"- having some super strong preference about the way something "needs to be done" that you read in a book, forum, conference or fancy colleague, being super militant about enforcing it and judgemental about people",

"who don't already do it. and then realizing this was wrong",

"- you had a stack you thought was universally superior but now you think people should just pick the right tool for the job",

"- being such an expert at something that you forget why anyone would think this is hard, then having to learn something new and sucking at it at first and remembering that programming actually is a skill, then getting",

"really great at that",

"- Willing to work with new technologies, different environments.",

"- Willing to work with everything and anything, Full Stack.",

"- Experience working with Agile.",

"- Growth mindset.● Like your work and accomplish many things.",

"- Ownership mentality.",

"- Problem-solving skills.",

"- Self-management skills. Can work independently/autonomously.",

"Other Stuff About Us",

"- Remote work.",

"- Flexible schedule.",

"- Monthly salary in USD.",

"- Multi-company Equity.",

"- Accountant that manages all the paperwork for you.",

"- Health Insurance after 3 months.",

"- English classes.",

"- Free lunch everyday at the office (if you're there)!)",

"- Weekly talks, gather together with the team exchange knowledge.",

"- Yearly retreat bringing together the whole team.",

"THE INTERVIEW PROCESS",

"- Initial conversation, we get to know each other and see if it makes sense for both sides.",

"- Coding test.",

"- Final interview.",

"We are looking to hire people who think long term. People create exponentially more value here in their 3rd or 4th year rather than their 1st or 2nd, and that only increases.",

"- Disclaimer: If you leave on good terms, you can retain 20% of your equity if you continue to send leads our way, share our core values, etc. If you leave for project (or someone else's), you retain 100% of your equity. Folks create exponentially more value here in their 3rd and 4th years than their 1st or 2nd - we want folks",

"who think long-term like we do.",

"",

"Salary",

"First 3 months: 12k - 16k USD",

"3+ months: 16k - 20k US",
"
"
"
"Please check in detail and fill out below form:",
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"
"We are based in New York and we're looking for the world's most effective developers that are also a cultural fit to work with us on projects that increase Human Agency.",
"We are looking for the best of the best. People who love what they do and are legitimately excellent at it.",
"Is this you?",
"If you answered this with an unequivocal yes, then it might not be the best fit.",
"We also want people who understand that no one knows everything, don't have egos, understand their own shortcomings and are excited to grow.",
"We want people who are badass but also humble and care about helping their team. We want people who get shit done and give a shit. We want people who don't care about titles but care about results.",
"We are asking for a lot. What we can offer you?",
"- A legitimate meritocracy. We don't care if you fancy huh, we care if you are actually good at your job. Been passed over for the guy who's great at talking to the EVP about how you just need to move to microservices but just pushed several critical bugs to production? That will not happen here.",
"- The ability to work with other people like you. And the joy of not having to work with people who aren't - no shitty devs, assholes, or devs who spend 2 hours a day working and 6 hours on TikTok and spreading office gossip.",
"- An intensive onboarding bootcamp where you will be challenged, tested, and learn a ton. While we don't like firing people or having them quit, we care more about guaranteeing #2 and this process is meant to weed people out who aren't a fit.",
"- A highly supportive atmosphere. We have a high standard for performance, but we will do everything we can to help each individual attain it. Everyone at all levels of the company is willing to pitch in and provide advice, mentorship, or even jump in to get our hands dirty coding, organizing the backlog, or talking to",
"clients when a team needs extra support. We're in this together.",
"- The ability to work on some of the most exciting technical and product challenges that exist today. We work with clients, who bring us in to work on their most critical and important tasks because they know we can deliver and on our own internal projects which solve real needs. We also work on complex blockchain",
"projects with legitimate use cases. We also build best-in-class web and mobile applications and have some of the world's best data scientists.",

"- The ability to work on a range of projects in different fields, industries, and stacks for companies ranging from early-stage startups to enterprise.",

"- Competitive pay with regular performance-based raises and other fun stuff including company retreats, a really nice office, health and pet insurance, a cake to embarrass you on your birthday, etc.STACK",

"You will be working mostly with JavaScript and libraries/frameworks in its ecosystem.",

- "- JavaScript / TypeScript",
- "- React / Angular / Nullstack",
- "- Node / Next.js / Apollo",
- "- EVMs / Solidity",
- "- Flow / Cadence",
- "- Solana / Metaplex / Rust",
- "- Truffle / Hardhat",
- "- web3.js / ethers.js",
- "- Everything else in the JavaScript ecosystem",

"YOU WILL",

- "- Work Full-time.",
- "- Work with a 10x dev team.",
- "- Work in internal projects and client projects.",
- "- Build projects with a product focused mentality while keeping your code clean.",
- "- Build modern, efficient apps and test that they work correctly.",
- "- Constantly communicate with clients.",
- "- Review pull requests from other members of the team.",
- "- Have a founder mentality and proactively solve problems.",
- "- Wear any hats needed to get the job done.",

"About You",

"- Ability to communicate effectively and work exclusively in English. (This is a must)",

- "- A minimum of 5+ years of programming experience with our stack.",
- "- realizing in the middle of the night you forgot a major edge case that you can't believe hasn't burned you yet and need to fix asap",
- "- git blaming some shitty code and realizing it was you, deciding to never git blame again",
- "- having some super strong preference about the way something "needs to be done" that you read in a book, forum, conference or fancy colleague, being super militant about enforcing it and judgemental about people",
- "who don't already do it. and then realizing this was wrong",
- "- you had a stack you thought was universally superior but now you think people should just pick the right tool for the job",
- "- being such an expert at something that you forget why anyone would think this is hard, then having to learn something new and sucking at it at first and remembering that programming actually is a skill, then getting",
- "really great at that",
- "- Willing to work with new technologies, different environments.",

"- Willing to work with everything and anything, Full Stack.",
"- Experience working with Agile.",
"- Growth mindset.● Like your work and accomplish many things.",
"- Ownership mentality.",
"- Problem-solving skills.",
"- Self-management skills. Can work independently/autonomously.",
"Other Stuff About Us",
"- Remote work.",
"- Flexible schedule.",
"- Monthly salary in USD.",
"- Multi-company Equity.",
"- Accountant that manages all the paperwork for you.",
"- Health Insurance after 3 months.",
"- English classes.",
"- Free lunch everyday at the office (if you're there)!.",
"- Weekly talks, gather together with the team exchange knowledge.",
"- Yearly retreat bringing together the whole team.",
"THE INTERVIEW PROCESS",
"- Initial conversation, we get to know each other and see if it makes sense for both sides.",
"- Coding test.",
"- Final interview.",
"We are looking to hire people who think long term. People create exponentially more value here in their 3rd or 4th year rather than their 1st or 2nd, and that only increases.",
"- Disclaimer: If you leave on good terms, you can retain 20% of your equity if you continue to send leads our way, share our core values, etc. If you leave for project (or someone else's), you retain 100% of your equity. Folks create exponentially more value here in their 3rd and 4th years than their 1st or 2nd - we want folks",
"who think long-term like we do.",
"",
"Salary",
"First 3 months: 12k - 16k USD",
"3+ months: 16k - 20k US",
"",
"",
"Please check in detail and fill out below form:",
"<https://docs.google.com/forms/d/e/1FAIpQLSdgsZmT4ySExp79YQiP1is-a2V0LbcXCAqELm9l57-vaYx6Xw/viewform>",
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    "(Remote, Full-Time, Anywhere in the World)",
    "",
    "Starting Pay: USD $100-130K/year for Advanced and Senior level, $60-80K/year for Mid-level (details below)Further pay promotions available based on performance once on the job",
    "",
    "!! EXPERIENCED CANDIDATES ONLY !! NO JUNIORS ALLOWED !!",
    "",
    "Introduction",
    "",
    "Elite Software Automation (ESA) is a boutique consulting firm that helps successful, fast growing businesses become even more successful by increasing their profit margin, and enabling scalable growth through process optimization, custom systems, and automations.",
    "",
    "Our clients are established 7 and 8 figure enterprises with service-intensive business models. They are companies who are good at getting clients and making sales, but as they scale, they face challenges in running the back-end of their businesses. They generally have issues with the effectiveness and efficiency of operational processes, systems that should run those processes, and automations, or the lack of them.",
    "This is where we come in. We turn our client businesses from chaos to order and transform their operations into lean, mean, profitable, and automated machines.",
    "",
    "We fix process issues by expertly designing and implementing all-round detailed business processes that assure effective and efficient operation in any all relevant business area.",
    "We build and implement custom systems that make sure that all these processes are correctly and efficiently run at all times; and cannot be sabotaged by people, wrong decisions, lack of information, or any other form of human error."
  ]
}
```

"We automate all processes with repetitive logic within our systems with highly detailed custom automations, removing the manual effort on them, and making execution instant.",

"All this is only possible because of our unique approach, which consists of very focused and methodical execution, dedicated focus on each client's specific business goals and circumstances, extreme attention to detail, and our unique in-house developed technology stack and methodology. Our firm does not outsource anything, everything is done by our full-time in-house team.",

"Our firm is committed to success - both for us and our clients. Therefore we are very selective when it comes to both clients and team members.",

"We have a high demand for our services and as such, we only take on serious clients for whom we can get real results and who can be a good fit for our services. Our clients let us follow our methodology, and we work with them in tandem to help make their critical and strategic business decisions. We do not work to cater to random or meaningless requests or engage in contracts that jeopardize our ability to help clients achieve their business goals.",

"Our selectivity and high requirements also apply to our staff. Work in our organization is rewarding and with substantial growth opportunities (including cash income growth), but it is also very demanding. It is only suitable for committed, strong, and capable individuals.",

"This is not one of those consulting jobs where you spend much of the day showing up to meetings, repackaging the same reports or presentations, or doing other boring activities focused on appearance rather than value-add.",

"This is not a \"requirements gathering\" job where you take down other people's requirements and pass them along.",

"This is not a job where you're paid to just execute tasks that somebody else has given to you.",

"This is a job where you actively use your expertise, analysis, creativity, and hard effort to figure out how to produce results for our clients and then deliver them.",

"This is a job where you investigate client problems, conceptualize solutions and deliver tangible improvements, making businesses successful. It requires you to be at the top of your game, and dedicate all your brain power to what you're doing.",

"This is a job where you can and are expected to take responsibility, make decisions, be creative, and make a real difference in the world of business.",

"The ultimate goal of your role is to help our clients become and remain the dominant forces on their markets. You do this through delivering tangible benefits to our clients' businesses by developing and implementing improved processes, and custom-made systems (leveraging our expert tech team) to run and automate these processes, making their business operations more efficient, profitable, scalable, and successful.",

"Our firm provides high-end business optimization services and commits to delivering high-end business results.",

"We're looking to add people to our team who will commit to very hard work to do the same, and take ownership of their projects to identify and carry out whatever is necessary to achieve that. Full Description Available On Our Site This job board has a word limit. To see the full and thorough description of the job with all the details, click \"Apply\" button to go to our site and see the full description of the job with all the details.",

"",
 "",
 "(Remote, Full-Time, Anywhere in the World)",
 "",

"Starting Pay: USD \$100-130K/year for Advanced and Senior level, \$60-80K/year for Mid-level (details below) Further pay promotions available based on performance once on the job",

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"" ,

"Working Nomads curates remote digital jobs from around the web.",

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  "💼 Competitive Compensation",
  "🌟 Professional Growth",
  "🕒 Flexible Schedule",
  "📝 Impactful Projects",
  "👥 Supportive Community",
  "🎭 Virtual Team Events",
  "💻 Health and Wellness",
  "💻 Cutting-edge Tools",
  "🌐 Global Opportunities",
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    "We are currently looking for writers with professional experience in Customer Relationship Management to help us create high-performing blog articles for our client who is a fast-growing CRM software provider for small-to-medium-sized businesses.",
    "The content we're looking to produce will:",
    "Provide genuine value to the reader in the form of practical advice and takeaways;",
    "Highlights our client's service features and use-cases in a natural way",
    "Discuss the pain points and offer solutions for CRM issues, such as clunky interface, a lack of features, or archaic tools."
  ]
}
```

"Priority will go to those who have worked in CRM in Sales, HR, or Marketing and a management level.",

"Our client is a fast-growing CRM software provider that offers solutions specifically designed for small businesses. They offer an end-to-end service, including sales integration, internal comms, and marketing.",

"Our ideal applicants have one or more of the following:",

"A relevant degree (e.g. Marketing, business, or equivalent)",

"Other recognized industry-specific qualifications",

"2+ years experience working in a relevant role. ideally as a CRM manager",

"2+ years writing about CRM (preferably by-lined) for well-known blogs and publications",

"----",

"About Eleven Writing",

"Eleven Writing produces high-quality written content for some of the world's largest digital publishers and brands, including TechRadar, Tom's Guide, Top10.com, Cardano, and more. We work with subject-matter expert writers and professional editors to produce publish-ready content.",

"Role Description",

"Eleven Writers are responsible for producing high-quality written content in line with client expectations and guidelines. A successful Remote Writer has highly developed writing & communication skills, knowledge of SEO copywriting, excellent attention to detail, and the ability to work independently or as part of a team. A willingness to respond positively to constructive feedback from editors is also essential.",

"Advantages of Working with Eleven",

"Get your byline on top bands (TechRadar, Marie Claire, Top10.com, and Cardano are just some of the companies we work with).",

"Write on a wide variety of topics in your field.",

"Work closely with professional editors who will help you level up your craft and learn industry best practices.",

"Access to a streamlined working platform with automated invoices and payments.",

"Ability to self-assign articles.",

"Expectations provided in advance, usually with a template or comprehensive brief, minimising revisions and turn-around time.",

"Ongoing Slack support from dedicated Project Managers to resolve queries regarding topics, article specifics, briefs and guidelines, etc.",

"Possibilities to progress within the company over time.",

"Responsibilities and Duties",

"Produce high-quality, well-researched articles in compliance with client briefs and expectations.",

"Revise articles in response to editor and/or client feedback.",

"Consistently meet deadlines and minimum weekly output for articles and revisions.",

"Watch relevant Slack channels for notifications and updates.",

"Raise issues encountered in completing work in appropriate Slack channels.",

"Required Skills, Experience, and Qualifications",
"Native-level English.",
"Subject-matter expertise as demonstrated by a Bachelor's degree or equivalent or 3+ years' industry or relevant writing experience.",
"Outstanding writing skills and a desire to continuously improve your craft.",
"Excellent research skills and ability to identify appropriate and credible sources",
"High attention to detail and accuracy of work.",
"Excellent written and verbal communication skills.",
"SEO writing knowledge and/or experience.",
"Familiarity with a range of online article formats and styles, such as blog posts, software/product reviews, feature articles, technical guides, and how-to articles.",
"Ability to closely follow & apply style guidelines and client briefs.",
"Versatility in adapting tone and style in line with the target audience.",
"Willingness to respond positively to constructive feedback from editors or clients.",
"Strong work ethic and a professional attitude.",
"Resourcefulness and proactivity in seeking solutions.",
"Ability to work independently and as part of a team.",
"Comfortable using collaboration software (i.e., Google Workspace; Slack).",
"----",
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"Discuss the pain points and offer solutions for CRM issues, such as clunky interface, a lack of features, or archaic tools.",
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    "SEO writing knowledge and/or experience.",
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Commands To Run

- npm install
- cd database
- node createTable.js
- cd..
- node app.js