

## CSCI 1300 Capstone Project: Ladder Iterative Design

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### **Abstract**

In this project, we have taken an early-stage startup idea from the 2020 YCombinator's Demo Day and iteratively designed a web interface strictly based on the concept. The startup company we picked, Ladder, is a construction-based labor marketplace that seeks to connect employees and employers in order to provide long-term employment.

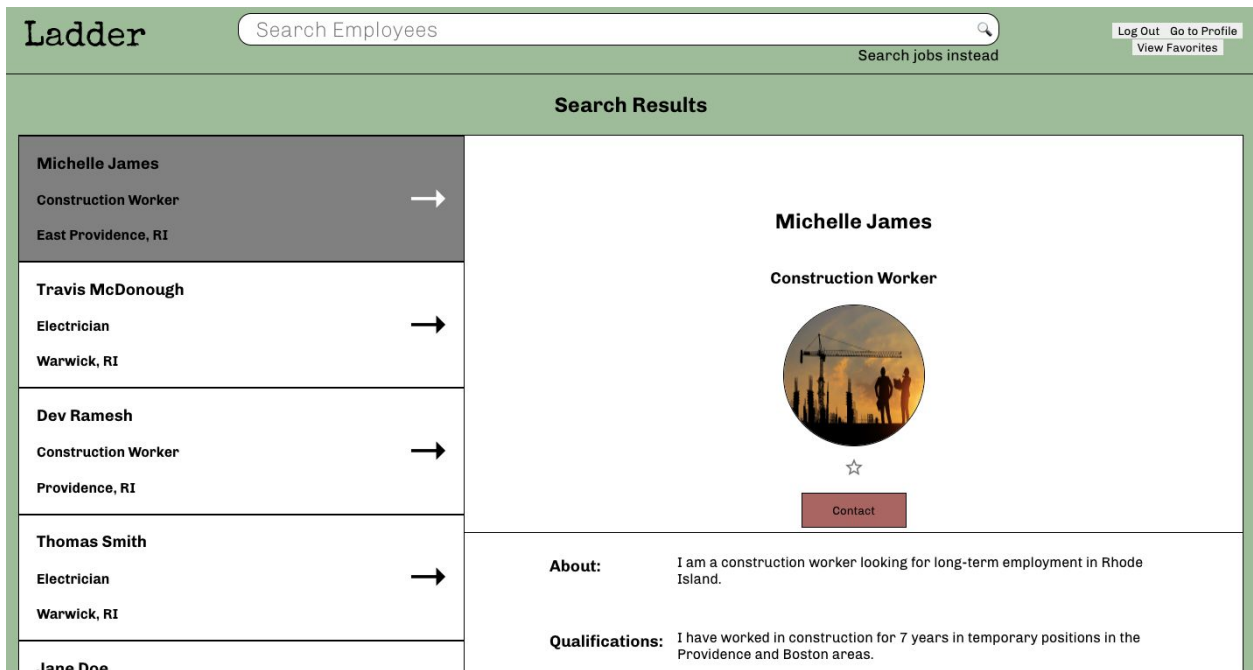
The process we undertook for iterative design went as follows: (1) Creating basic sketches, (2) Combining the ideas from the sketches into a low-fidelity wireframe, (3) Incorporating visual design elements to form a high-fidelity prototype, (4) Undergoing critique and feedback in order to improve upon the high-fidelity prototype, and (5) Performing user testing to evaluate user experience of our interface. The aforementioned process is outlined in the following project writeup: <https://fathomless-castle-93898.herokuapp.com>.

After receiving feedback from several users and the co-founder of the real Ladder startup, we have created and deployed a functional web application based on our design: <https://protected-bastion-57623.herokuapp.com>. Our application was created using a React frontend and a Node.js backend, along with a PostgreSQL database. Additionally, it includes many features such as user authentication, search functionality, individualized accounts and profiles, and responsive design.

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## Images

The remaining pages consist of screenshots of select sections of the finished website.



Providence Electric, Inc.'s Jobs

**Industrial Electrician**  
 Providence Electric, Inc. →  
 Providence, RI

**Residential Electrician**  
 Providence Electric, Inc. →  
 Providence, RI

Providence Electric, Inc.: Industrial Electrician



Profile



Contact

**Description:**

Electrician; make general electrical repairs in industrial settings. Serves Providence and surrounding areas.

**Qualifications:**

Experience with industrial electrical work. Willing to travel up to an hour outside of Providence for certain jobs.

Providence Electric, Inc.



Jobs

Website

Contact

**About:**

Providence Electric is one of the top providers of electrical repairs and services in Rhode Island. We provide both industrial and residential electrician services. We are currently looking to hire 5-10 more employees as we look to expand into surrounding areas.

**Logistics:**

We are located in East Providence. Please use the "contact" link in our profile to reach out to us.

**Location:**



Favorites

Favorites category: company

Providence Electric, Inc.

Providence, RI



Providence Electric, Inc.



Jobs

Website

Contact

About:

Providence Electric is one of the top providers of electrical repairs and services in Rhode Island. We provide both industrial and residential electrician services. We are currently looking to hire 5-10 more employees as we look to expand into surrounding areas.

Logistics:



My Jobs

New Job

Industrial Electrician

Providence Electric, Inc.

Providence, RI

Published



Edit

Unpublish

Delete

Providence Electric, Inc.: Industrial Electrician



Contact

Description:

Electrician; make general electrical repairs in industrial settings. Serves Providence and surrounding areas.

Qualifications:

Residential Electrician

Providence Electric, Inc.

Providence, RI

Published



## Create a Job

### Job Title

Industrial Electrician

### Job Image URL

<https://newenglandwithlove.com/wp-content/uploads/2020/08/bigstock-Providence->

### Job Description

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### Job Qualifications

Experience with industrial electrical work.  
Willing to travel up to an hour outside of Providence for certain jobs.