

# Student Recruiter

<https://dev.dqb53fxlk6it2.amplifyapp.com>

# Partner

- CMXi Corp dba RacerX Marketplace
- Our application → micro site of RacerX Marketplace

# Problem

- Student recruiting platform
- Visualize student growth, passion
- Hire-ability score: skills/experience ↔ job requirements
- Users:

Students	Recruiters
Be matched with jobs curated to skills, passion, experience	Get applications from students who are good fits; save time

# Demo

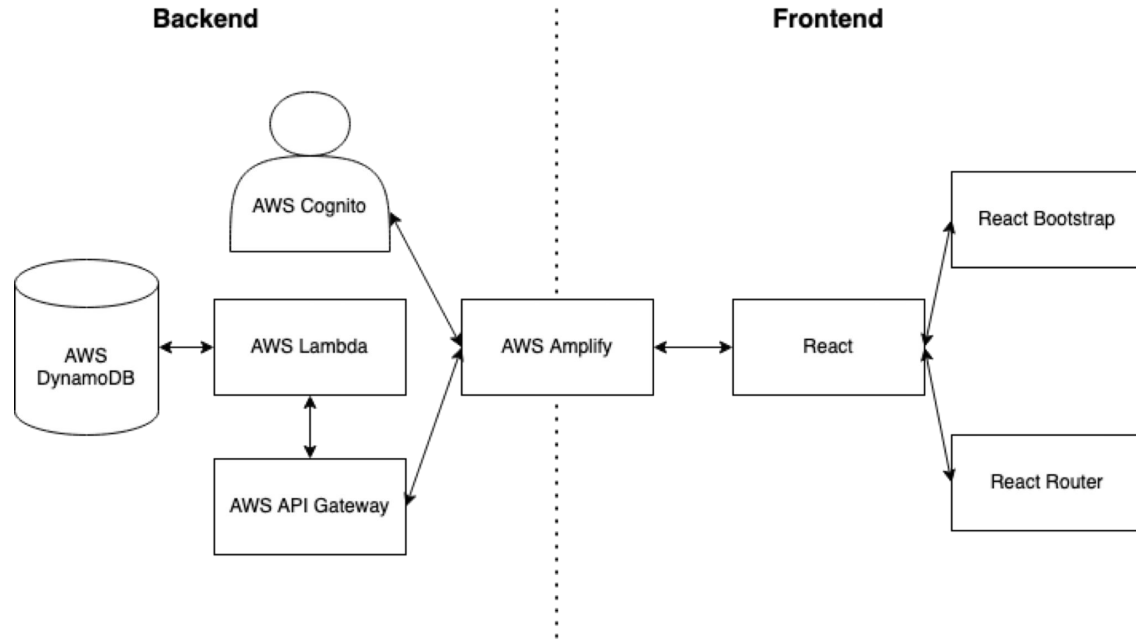
# Process

- Frontend Team
  - Leveraging Git and the use of pull requests
- Backend Team
  - Senior developer: David
  - Pair Programming

# Access & Handoff

- Deployed using AWS amplify
  - <https://dev.dqb53fxlk6it2.amplifyapp.com/>
- Backend: on partner AWS account
- Frontend: React app code can be pushed to partner's git remote

# Tech Stack



# Frontend

UI library: React-Bootstrap

Client side routing: React Router

Page views:

- Navbar
- Dashboard
- Search
- Onboard
- Student Profile
- Recruiter Profile



# AWS Cognito User Authentication

Signed in

```
return (  
  <Authenticator>  
    {{ signOut }} => (  
      <=>  
        <NavBar onSignOut={signOut} />  
        <Container fluid className="dashboard-container">  
          <Notifications notifications={userData.notifications} />  
          <ProfileSummary user={userData} />  
          <Row>  
            <Col xs={12} lg={4} className="dashboard-column">  
              <Activity />  
            </Col>  
            <Col xs={12} lg={4} className="dashboard-column">  
              <Applications  
                applications={userData.applications}  
              />  
            </Col>  
          </Row>  
        </Container>  
      )  
    )  
  </Authenticator>  
)
```

The screenshot shows a web application dashboard for a 'Student Recruiter'. The top navigation bar includes links for Dashboard, Onboarding, Profile, Inbox, and Search, along with a 'Sign Out' button. A sample notification is displayed at the top. The main content area features a 'Test User' profile with a 50% complete profile, 3 pending applications, and 2 matches to review. Below this, there are three sections: 'Recent Activity', 'My Applications', and 'Suggested Matches'. The 'My Applications' section lists three roles: Software Developer (Google), DevOps Engineer (IBM), and Embedded Developer (AMD), each with a score and a 'View' button. The 'Suggested Matches' section lists three roles: Software Developer (Amazon), Database Administrator (Shopify), and another Software Developer (Amazon), each with a score and an 'Apply' button.

Signed out

The screenshot shows a sign-in form with two input fields: 'Email' and 'Password'. Below the fields is a 'Sign In' button. A link for 'Forgot your password?' is located at the bottom of the form.

# Backend

AWS API Gateway: Contains the API endpoints

AWS Lambda: Contains the Handler functions for Students, Recruiters, and JobListings

- RecruiterHandler
- StudentHandler
- JobListingsHandler

DynamoDB:

- RecruiterTable
- StudentTable
- JobListings

CloudWatch:

- Debugging
- Request details

# AWS Lambda



Code source [Info](#)

File Edit Find View Go Tools Window **Test** Deploy

Go to Anything (Ctrl-P)

Environment

- JobListingsHandler
  - index.js

```
1  /**
2   * @type {import('@types/aws-lambda').APIGatewayProxyHandler}
3   */
4   const AWS = require("aws-sdk");
5   const docClient = new AWS.DynamoDB.DocumentClient();
6
7
8   exports.handler = async function(event) {
9     console.log('Request event: ', event);
10    let response;
11    switch(true) {
12      // ex: /joblistings/get-all
13      case event.httpMethod === 'GET' && event.path === '/joblistings/get-all':
14        response = await getAllJobListings();
15        break;
16      // ex: /joblistings?jobID=1
17      case event.httpMethod === 'GET':
18        response = await getJobListingByID(event.queryStringParameters.jobID);
19        //response = buildResponse(200, AWS.util.uuid.v4());
20        break;
21      case event.httpMethod === 'POST' && event.path === '/joblistings/add':
22        response = await addJobListing(JSON.parse(event.body));
23        break;
24      case event.httpMethod === 'PATCH' && event.path === '/joblistings/update':
25        const requestBody = JSON.parse(event.body);
26        response = await updateJobListing(requestBody.JobID, requestBody.updateKey, requestBody.updateValue);
27        break;
28      default:
29        response = buildResponse(404, '404 Not Found');
30    }
31    return response;
32  }
33  }
```

Source:  
Code Snippet: Lambda function for JobListings

# AWS API Gateway



Amazon API Gateway

APIs > apifa8c78cd (qkuks46fnh) > Stages > dev > /joblistings/get-all > GET

APIs

Custom Domain Names

VPC Links

API: **apifa8c78cd**

Resources

**Stages**

Authorizers

Gateway Responses

Models

Resource Policy

Documentation

Dashboard

Settings

Usage Plans

API Keys

Client Certificates

Stages

Create

dev - GET - /joblistings/get-all

Invoke URL: <https://qkuks46fnh.execute-api.us-east-2.amazonaws.com/dev/joblistings/get-all>

Use this page to override the dev stage settings for the GET to /joblistings/get-all method.

Settings ☒ Inherit from stage ☐ Override for this method

- dev
  - /joblistings
    - GET
    - OPTIONS
    - /joblistings/add
      - POST
    - /joblistings/get-all
      - GET
    - /joblistings/update
      - PATCH
  - /recruiters
    - GET
    - OPTIONS
    - /recruiters/add
      - POST
    - /recruiters/get-all
      - GET
    - /recruiters/update
      - PATCH
  - /students
    - GET
    - /students/add
      - POST
    - /students/get-all
      - GET
    - /students/update
      - PATCH
  - /testurante (/testuranti?)

# DynamoDB



JobListings Autoreview Actions Create item Update table settings

▼ Scan/Query items

Scan Query

Table or index  
JobListings

► Filters

Run Reset

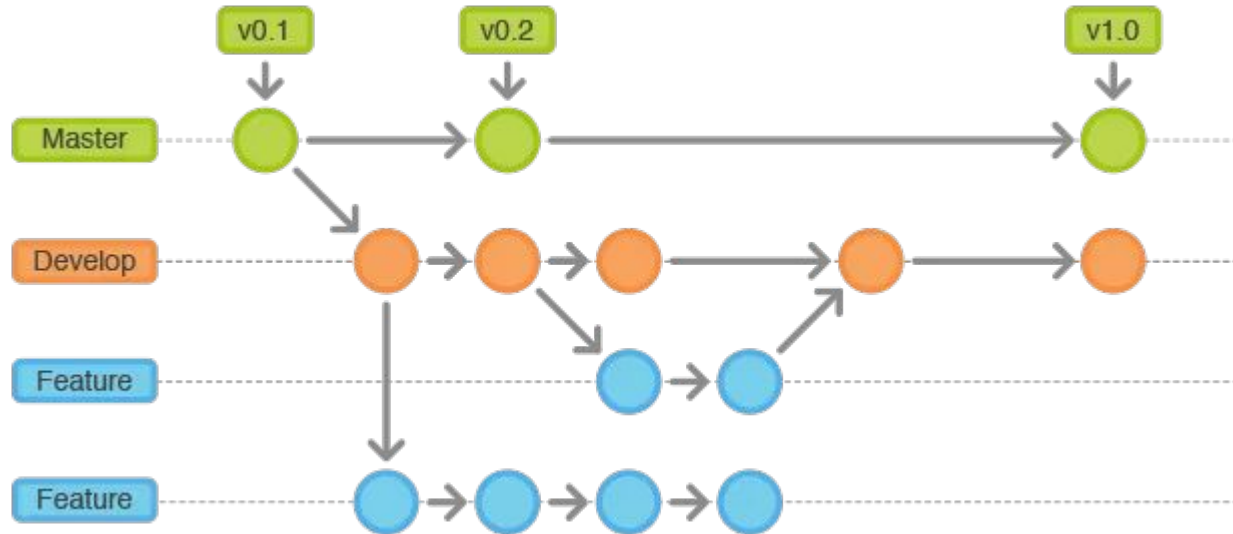
Completed Read capacity units consumed: 0.5

Items returned (3)

	JobID	Applicants	Company	Deadline	DesiredS...	JobDescr...	Location	Position	Recruiter..
<input type="checkbox"/>	2	[]	IBM	2022/02/03	[{"S": "Jav...	Description ...	Toronto, ON	DevOps En...	1
<input type="checkbox"/>	1	[]	Google	2022/02/17	[{"S": "Pyt...	Description ...	Toronto, ON	Software D...	<empty>
<input type="checkbox"/>	3	[]	AMD	2022/01/30	[{"S": "C/C...	Description ...	Markham, ON	Embedded ...	<empty>

Source:  
JobListings table in DynamoDB

# Git, CI/CD



# Code Cohesion

```
- dashboard
  Activity.js
  Applications.js
  Dashboard.css
  Dashboard.js
  Matches.js
  Notifications.js
  ProfileSummary.js
- listing
  HireabilityScore.css
  HireabilityScore.js
  Listing.css
  Listing.js
+ navbar
+ onboarding
- Profile
  EditPersonalInfo.css
  EditPersonalInfo.js
  Education.js
  index.css
  new create
  PersonalInfo.css
  PersonalInfo.js
  Skills.js
```

Dashboard

Search

## My Applications 3

### Software Developer

Google (Toronto, ON)  
2022/02/17 Saved [View](#)

77

### DevOps Engineer

IBM (Toronto, ON)  
2022/02/03 Submitted [View](#)

90

### Embedded Developer

AMD (Markham, ON)  
2022/01/30 Submitted [View](#)

59

### Software Developer

Google (Toronto, ON)  
**Deadline: 2022/02/17**

[Details](#) [Apply](#)

77

### Embedded Developer

AMD (Markham, ON)  
**Deadline: 2022/01/30**

[Details](#) [Apply](#)

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## Suggested Matches 2

### Software Developer

Amazon (Toronto, ON)  
**Deadline: 2022/04/15**

[Details](#) [Apply](#)

83

### Database Administrator

Shopify (Ottawa, ON)  
**Deadline: 2022/05/05**

[Details](#) [Apply](#)

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# Workflow & Learnings

- Frontend/backend subteams
- Communicate on Discord
  - Divided communication into several channels for the best organization
    - General
    - Frontend
    - Backend
    - Documents



# Individual Contributions

**Daria** - StudentTable API, Partner communication

**David** - DevOps, AWS set up, CI/CD, RecruiterTable API

**Dickson** - Recruiter profile page

**Jed** - Onboarding page

**Frank** - Student profile page

**Reizwan** - JobListings API

**Salman** - Navbar, Dashboard, Search page