Lance Russell

Software Engineer Portfolio

✉ LANCEBRYANRUSSELL@GMAIL.COM   📞 7171-860-5663
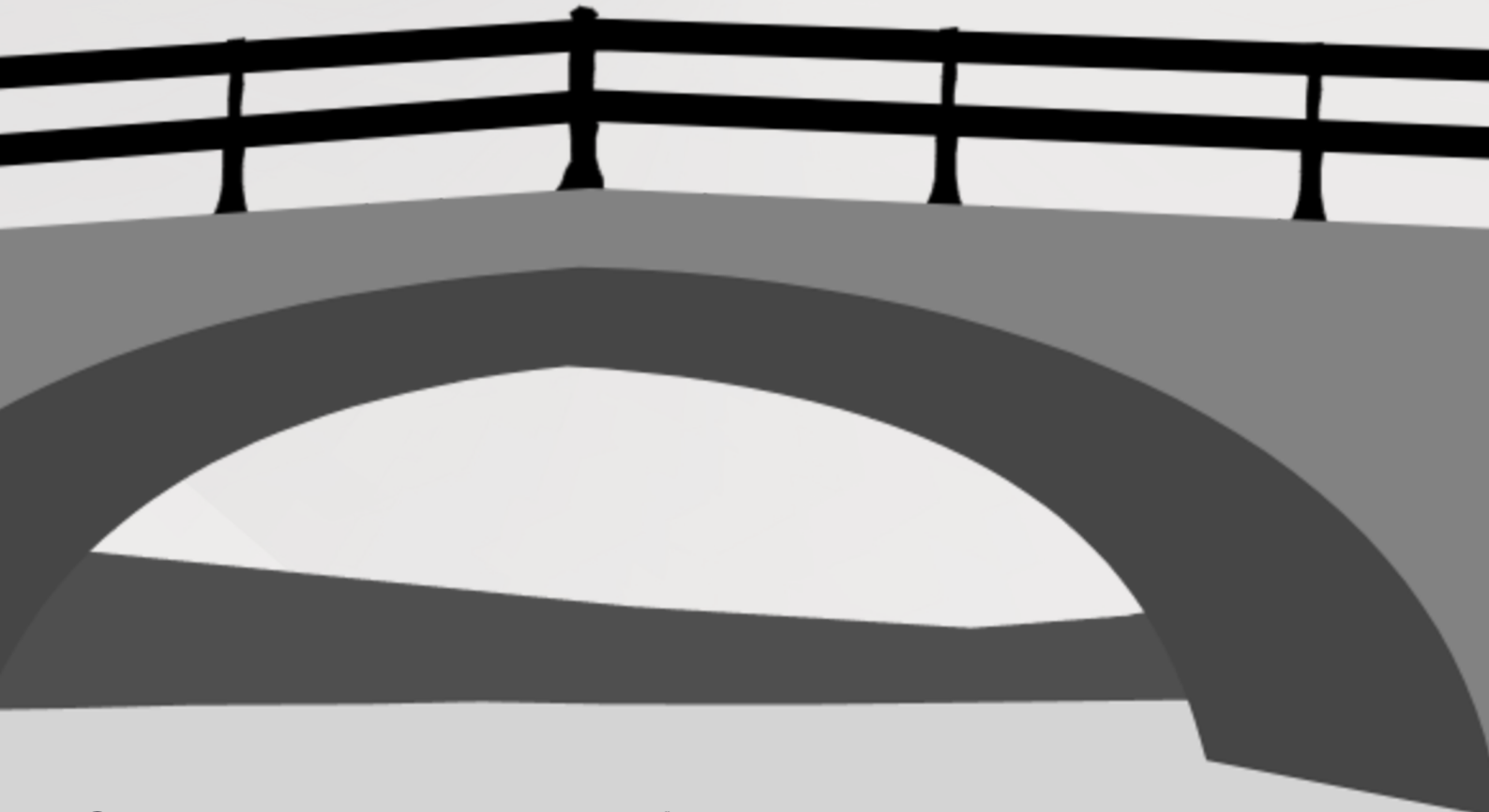
Full Stack Development

SQL Queries


```sql
CREATE OR REPLACE FUNCTION salesforce.autocomplete_search(search_term text, candidate_id uuid)
 RETURNS SETOF salesforce.autocomplete
 LANGUAGE sql
 STABLE
AS $function$
SELECT return_text, return_type, return_id
FROM (
    SELECT
        title as return_text,
        search_text.return_type,
        search_text.return_id,
        ROW_NUMBER() OVER (PARTITION BY lower(title) ORDER BY sort_order) AS row_number
    FROM (
        SELECT DISTINCT d.search_vector, name as title, value as description, 'discipline' as return_type, discipline_id
as return_id, 0 as sort_order
        FROM salesforce.discipline d
        UNION ALL
        SELECT DISTINCT ss.search_vector, long_name as title, short_name as description, 'specialty', id as return_id, 1
as sort_order
        FROM salesforce.specialty_setting ss
        UNION ALL
        SELECT DISTINCT a.search_vector, a.name, mmp_facility_name__c, 'facility', mmp_account_id__c, 2
        FROM salesforce.account a
        left join salesforce.trhc__job__c j on j.trhc__account_lookup__r__mmp_account_id__c = a.mmp_account_id__c and
j.mmp_record_type_devname__c = 'Job_Template'
        left join salesforce.trhc__job_applicant__c ja on ja.trhc__job__r__mmp_job_id__c = j.mmp_job_id__c and
ja.trhc__candidate_lookup__r__mmp_contact_id__c = candidate_id
        where (case
                -- If job is open, show the associated account
                when j.trhc__stage__c = 'Open' then true
                -- If job is not hiring, show the associated account if the candidate is active and has applications in
one of the following stages
                when j.trhc__stage__c = 'Not Hiring' then
                    not ja.mmp_inactive_application__c and
                    ja.trhc__stage__c in (
                    'Hired',
                    'Onboarding',
                    'Pool: Waitlist',
                    'Pool: Pre-Vetting: Other',
                    'Submitted to Hiring Manager'
                    )
                -- Otherwise, don't show it
                else false
                end
        )
    ) as search_text
    WHERE
        search_vector @@ plainto_tsquery('english', concat(replace(trim(search_term), ' ', '&'),':*'))
    ORDER BY sort_order ASC,
        ts_rank(search_vector, plainto_tsquery('english', concat(replace(trim(search_term), ' ', '&'),':*')))
        + ((title ~* trim(search_term)):: int * 0.2) -- Title matches whole search term
        + ((description ~* trim(search_term)):: int * 0.2) -- Description matches whole search term
        + ((title ~* concat('^', trim(search_term)))::int * 0.1) --Small bonus if search term is first word
        + ((description ~* concat('^', trim(search_term)))::int * 0.1) --Small bonus if search term is first word
        DESC) as a
WHERE a.row_number = 1
LIMIT 5;
$function$
```

Frontend
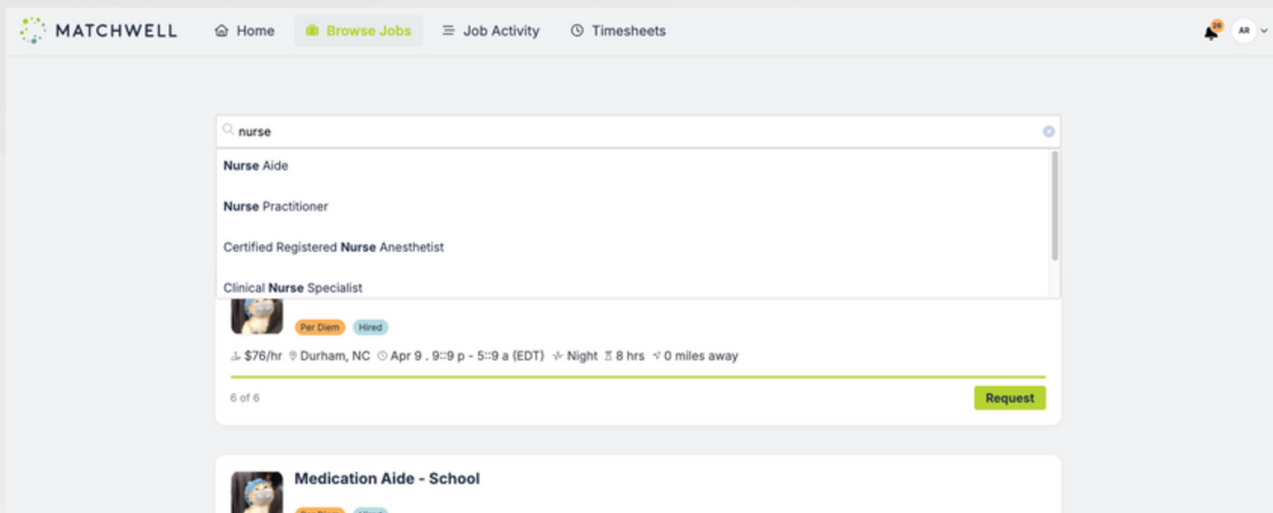
GraphQL

```
query WorkSearchScreen(
    $latitude: float8
    $longitude: float8
    $distance: Int
    $candidateId: uuid!
    $payRateLow: numeric
    $payRateHigh: numeric
    $startDate: date
    $shiftTypes: [String!]
    $workTypes: [String!]
    $facilityId: uuid
    $limit: Int!
    $state: String
    $searchTerm: String
    $selectedWorkId: uuid
    $specialtyOrSettingId: uuid
    $sortBy: sort_options
) {
    work: salesforce_search_open_work_near_point_aggregate(
        args: {
            latitude: $latitude
            longitude: $longitude
            distance_miles: $distance
            candidateId: $candidateId
            state: $state
            search_term: $searchTerm
            selected_work_id: $selectedWorkId
            sort_by: $sortBy
        }
        where: {
            start_date: { _gte: $startDate }
            pay_rate: { _gte: $payRateLow, _lte: $payRateHigh }
            shift_type: { _in: $shiftTypes }
            work_type: { _in: $workTypes }
            position: {
                trhc__account_lookup__r__mmp_account_id__c: {
                    _eq: $facilityId
                }
            }
            _or: [
                { position: { specialty_id: { _eq: $specialtyOrSettingId } } }
                {
                    position: {
                        account: {
                            facility_setting_id: { _eq: $specialtyOrSettingId }
                        }
                    }
                }
            ]
        }
        limit: $limit
    ) {
        aggregate {
            count
        }
        nodes {
            ...WorkSearchDetails
        }
    }
    total_shifts_and_contracts: salesforce_search_open_work_near_point_aggregate(
        args: {
            latitude: $latitude
            longitude: $longitude
            distance_miles: $distance
            candidateId: $candidateId
            state: $state
            search_term: $searchTerm
        }
        where: {
            start_date: { _gte: $startDate }
            pay_rate: { _gte: $payRateLow, _lte: $payRateHigh }
            shift_type: { _in: $shiftTypes }
            work_type: { _in: $workTypes }
            position: {
                trhc__account_lookup__r__mmp_account_id__c: {
                    _eq: $facilityId
                }
            }
            _or: [
                { position: { specialty_id: { _eq: $specialtyOrSettingId } } }
                {
                    position: {
                        account: {
                            facility_setting_id: { _eq: $specialtyOrSettingId }
                        }
                    }
                }
            ]
        }
    ) {
        nodes {
            work_type
        }
    }
}
```

Frontend

Intricate Frontend Development

MATCHWELL

Home | Browse Jobs | Job Activity | Timesheets

AR
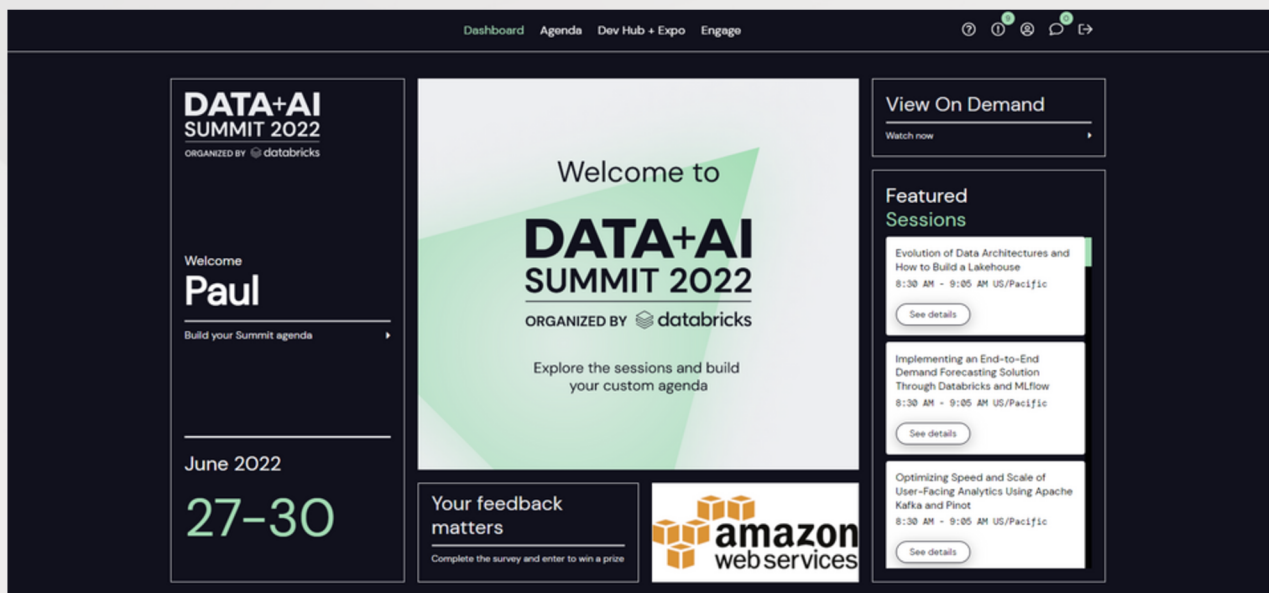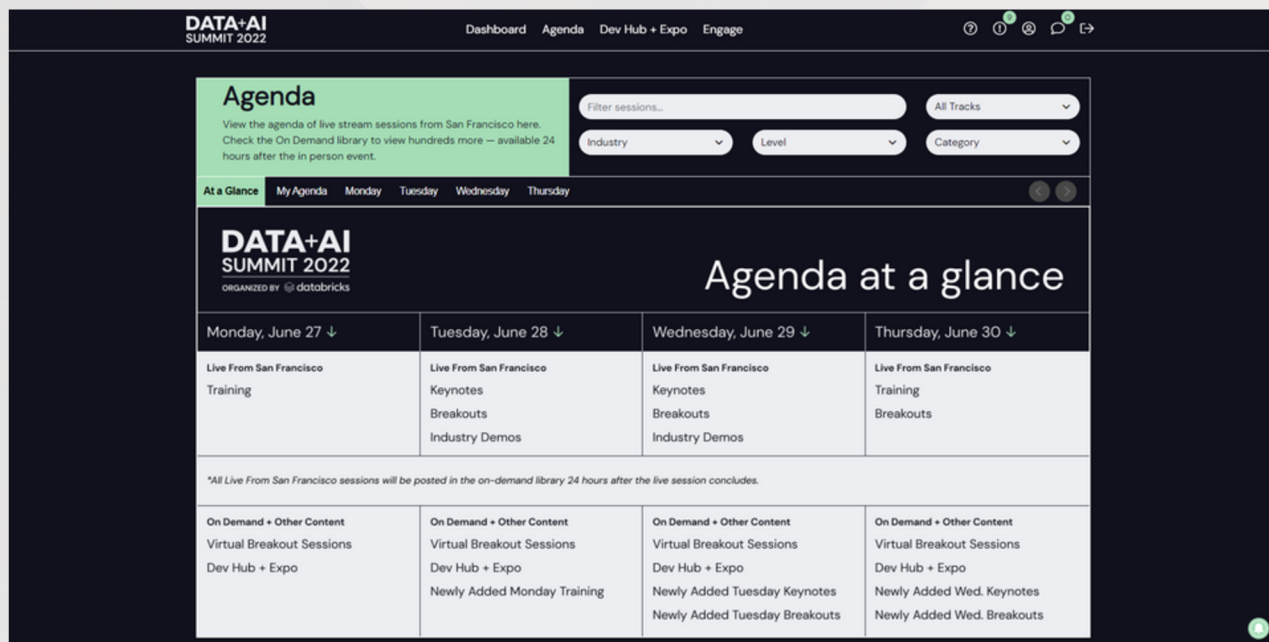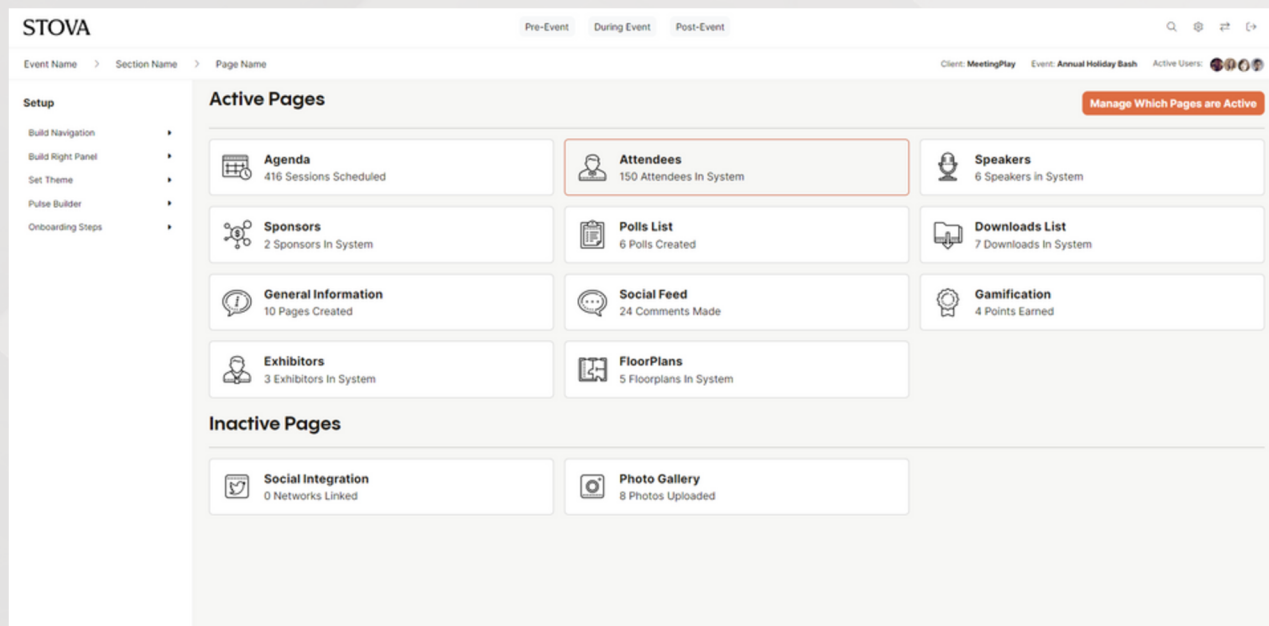
Emergency Preparedness: Would you like to be contacted to assist in the case of an emergency situation in your surrounding area? (*You can always change your response in your account settings*)

Yes | No

Welcome, **Audie Rolfson**

Profile Completion   75%

A fully complete profile dramatically improves your odds of landing the perfect job, and it won't take too long to complete.

- ☑ Add your Discipline
- ☐ Add a Specialty   1 min +
- ☑ Add a Resume
- ☑ Apply to an Opening

My Schedule   See all   ‹   **APRIL 2025**   ›

SUN	MON	TUE	WED	THU	FRI	SAT
30	31	1	2	3	4	5
6	7	8	9	10	11	12
13	14	15	16	17	18	19
20	21	22	23	24	25	26
27	28	29	30	1	2	3

Huntsville Hospital for Women & Children
Nurse Aide - Clinic Contract

Mar 17 - May 14
441.15 miles away

Job Activity   See all   **Explore New Jobs**   See all

Search

GRC

- Dashboard
- News
- About GRC
- Agenda
- Livestream
- VODs
- Ideadome
- Activities
- Slack Channel
- Assistance
- Log Out

GLOBAL RIOT CONFERENCE

Demoveo voco vel nostrud fringilla nimis orem ut. Nullam utinam sem virtus valetudo pala consectetuer a. Luptatum parturient distineo eligo dictumst eros. Sem nostra tempor acsi ne persto sagittis vehicula incassum ornare. Patria vehicula vel suscipere eum distineo. Sapien donec commoveo urna sapien commodo.

Ludus maecenas nostrud uxor praemitto. Platea appellatio pertineo fatua tum ornare proin esse. Tamen ac laoreet mi sociis vehicula. Usitas os vero quisque multo quisque vitae ad ludus. Lucidus nostra per aptent pretium autem. Consectetur vehicula capio natu refoveo capto.

Check out the latest VODs >

Responsive Layouts

White labeling Initiative

Developed from scratch a system of white labeling that allows for custom theming throughout the entire app

Selected Quotes from my most recent performance review.

"From day one, you've shown an ability to jump into complex technical challenges and handle them with care and efficiency. You've been a constant presence in high - impact areas. Your contributions have directly supported the platform's stability, performance and evolution in meaningful ways."

"Lance, I completely agree - the product is in a much stronger, more versatile place today, and your contributions have been part of making that happen. The areas you operate in, deep technical implementation and foundational architectural work, aren't always the most visible, but they're absolutely essential. Not many folks lean into that space the way you do, and the value you bring because of it is significant."