

ABOUT ME

- Software Engineer with 4 years of experience in Microfrontends Architecture, React.js, and TypeScript, seeking a technical leadership position.
- Core Maintainer and Technical Leader for the global OpenMRS 3 project, impacting over 3000 healthcare sites worldwide.
- Proven track record of leading and shipping impactful cross-platform applications in the Digital Health domain, focused on seamless and scalable architecture.
- Strong communicator and mentor (GSoC Admin/Mentor), thriving in collaborative, cross-functional environments.

LEADERSHIP

★ Admin/ Mentor for Google Summer of Code (GSoC)

OpenMRS | 2025 Mentor | 2024 & 2023 Org Admin

★ Engineering Mentor

Mekom Solutions | Dec 2023 – Jan 2025

★ Frontend Team lead

Mekom Solutions | 2023 – 2025

ACHIEVEMENTS

🏆 3 Dev promotions in 2 years

dev/4 – dev/3 – dev/2

🏆 Solved 650+ questions on LeetCode

75k global rank

EVENTS ATTENDED

🌐 On-site UVL-EMR Implementation

Mugamba, Burundi | Sept 2025

🌐 OpenMRS Implementers Conference 2025

Kampala, Uganda | Sept 2025

🌐 GSoC Mentor Summit 2024

Sunnyvale, California, USA | Oct 2024

🌐 OpenMRS Implementers Conference 2024

Nairobi, Kenya | Sept 2024

🌐 OpenMRS Form Engine Hackathon 2024

Kampala, Uganda | Apr 2024

SKILL SET

Core

TypeScript

JavaScript

Python

C/C++

Data structures & Algorithms

DBMS

Operating System

Distributed systems

Object Oriented Programming

Frontend

Microfrontends Architecture

Single-spa.js

React.js

Next.js

Redux.js

Angular

HTML5

i18next

Git

React Redux

Zustand

Carbon Design System

Material UI

Ant Design

Tailwind

Bootstrap

Webpack5

Turbopack

Vite

Testing

Jest

React testing library

Playwright

Backend

Node.js

Django

Django channels

REST APIs

API Development

MySQL

MongoDB

Web Sockets

AWS

Docker

Jenkins

Akamai

Project Management

JIRA

WIKI

GitHub

GitHub Actions

GitLab

EDUCATION

Dual Degree (B.Tech. + M.Tech.)

National Institute of Technology, Hamirpur

Aug 2017 – June 2022

Hamirpur, Himachal Pradesh

M.Tech. (Computer Science & Engineering): 9.80 / 10

B.Tech. (Computer Science & Engineering): 9.43 / 10

EXPERIENCE

Software Engineer III

Madiro.org | madiro.org

Feb 2025 – Present

Toronto, Canada

- Owned end-to-end implementation of Burundi’s first OpenMRS 3 deployment – from requirements gathering through on-site training – now in production and recognized by the Ministry of Health, Burundi
- Shipped the full Ozone HIS stack (OpenMRS + Odoo + Keycloak SSO + Superset) in record 2-month timeline, integrating patient records, pharmacy, billing, inventory, and reporting for UVL-EMR
- Built a multi-threaded Python tooling suite (18+ modules, rate-limit-aware batching) for Open Concept Lab, automating metadata management (diagnoses, lab tests, drugs, procedures) – reducing days of manual work to seconds per operation
- Contributed to the form generation pipeline to produce OpenMRS digital forms from Excel, cutting form creation from 3 days to 30 minutes across 70+ clinical forms

Organizations worked with: Médecins Sans Frontières – Ubuntu Village of Life, Burundi

Tech Used: JavaScript, TypeScript, Python, React.js, Microfrontends Architecture, Maven, Docker, Nginx, LetsEncrypt, Microsoft Azure, MySQL, PostgreSQL, OpenMRS 3, Ozone HIS, Keycloak, Superset

Software Engineer II

Mekom Solutions | mekomsolutions.com | ozone-his.com

Sept 2021 – Feb 2025

Singapore

- Redesigned the Patient Orders App in OpenMRS 3 as a zero-code configuration layer, reducing implementation effort from custom development to a 2-line config change – now adopted across multiple Ozone HIS deployments
- Partnered with clinical teams at Partners In Health (USA) to design and ship an in-patient ward management dashboard in OpenMRS 3, now used for real-time bed tracking and patient flow across their facilities
- Mentored a junior engineer over 12 months from onboarding to independently delivering features in OpenMRS 3
- Drove requirements from 3 international clients (France, Cambodia, USA) into upstream OpenMRS 3 features, balancing client timelines with community-first architecture across 3,000+ sites
- Redesigned OpenMRS 3’s i18n layer with i18next – adding RTL support, pluralization, and locale-aware formatting – and integrated Transifex to let non-developers manage translations across 15+ languages

Organizations worked with: Ministry of Health of Cambodia – Partners in Health

Tech Used: Microfrontends Architecture (single-spa.js), ReactJS, Angular, TypeScript, Carbon Design System, Docker, Webpack, i18next, Responsive web design

Senior Software Engineer, Global Product Support Team

OpenMRS | openmrs.org

Feb 2021 – Present

United States

- Core maintainer of OpenMRS 3, a microfrontend platform (React, TypeScript, single-spa.js) deployed at 3,000+ healthcare sites globally – responsible for architecture decisions, code reviews, releases, and performance across the ecosystem
- Rearchitected OpenMRS 3’s Workspace system with multi-window and nested child window support, abstracting all lifecycle management behind a minimal API that freed module developers from handling state and cleanup logic
- Onboarded 5+ implementing organizations onto OpenMRS 3.0 and led daily/weekly squad calls covering debugging, learning sessions, and release coordination
- GSoC 2025 Mentor, GSoC 2024 Org Admin, GSoC 2023 Mentor, GSoC 2021 Contributor – shaping project scope and guiding contributors across 4 program cycles

Tech Used: Microfrontends Architecture (single-spa.js), ReactJS, Angular, TypeScript, Carbon Design System, Docker, Webpack, i18next, Responsive web design