

Esteban Romo

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WORK EXPERIENCE

Full Stack Software Engineer

April 2021 – Nov 2023

CANImmunize

Remote

- **VaxRecordNS:** Allows the residents of Nova Scotia to access their vaccination records.
 - * Collaborated closely with multiple vendors as part of a wider effort to centralize the province's health data.
 - * Developed web and mobile apps using React, React Native, and Typescript that interface with a governmental OIDC identity provider and a FHIR data repository storing the vaccination records of 1M+ patients.
 - * Designed scalable serverless services that allow users to manage their dependents and generate official downloadable vaccination records using AWS Lambda, Twilio, and Redis.
 - * Created dashboards and alerts to monitor the health of the applications with AWS CloudWatch and Slack integrations.
 - * Set up CI/CD pipelines to build and deploy the applications with CircleCI.
 - * Managed the project's infrastructure using Terraform.
- **Shield:** Digital tool to help employers collect, manage and verify proof of vaccination of their employees.
 - * Developed a SaaS solution with Typescript, React, and PostgreSQL that handled PHI of up to 150K+ employees across public and private sectors.
 - * Participated in the interview, hiring, and onboarding of co-op students.
 - * Conducted code reviews of peers and mentored junior developers.
 - * Implemented suggestions from external cybersecurity audits to become SOC 2 compliant.
- **ClinicFlow:** End-to-end software solution for institutions to run paperless mass immunization campaigns.
 - * Developed performant web and mobile applications with React, React Native, and PostgreSQL that handle the forecasting, booking, logging, and proof of vaccination of 1M+ Canadians.
 - * Expanded the vaccination forecasting system to support new COVID-19 guidelines.
 - * Headed deployments that major data migrations and infrastructure changes.
 - * Diagnosed, mitigated and solved critical incidents as the on-call engineer.
- **Canadian Vaccine Catalogue (CVC):** Comprehensive, standards-based, source-of-truth for vaccine terminology and vaccine product information in Canada.
 - * Solely responsible for maintaining a catalogue with 100K+ records made available as an npm package, web app, and HL7 FHIR API running on AWS EC2.
 - * Released new versions of the CVC with data provided by Health Canada biweekly using Jenkins.

EDUCATION

Sheridan College

Dec 2020

Ontario College Diploma, Computer Systems Technician - Software Engineering

Oakville, ON

- High Honours recipient.
- GPA 3.93/4.00.

PROJECTS

@es-romo/relay | *Typescript, Fastify, Lerna, Jest, GitHub Actions, Glitch*

Nov 2023 – Present

- Developing a minimal implementation of a WebSocket-based relay server and client for listen server / host architectures made available as individual npm packages.

TECHNICAL SKILLS

Languages: Typescript, SQL (Postgres), JavaScript, HTML/CSS.

Frameworks: React, React Native, Express, Fastify, Node.js, Jest.

Developer Tools: Git, CircleCI, GitHub Actions, Jenkins, XCode, Lerna.

Infrastructure: AWS, Elastic Beanstalk, RDS, ElastiCache, EC2, Terraform.

Libraries and Others: Typeorm, Ant Design, Redis, Docker.