

# Esteban Romo

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## WORK EXPERIENCE

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### 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

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### Sheridan College

Dec 2020

*Ontario College Diploma, Computer Systems Technician - Software Engineering*

*Oakville, ON*

- High Honours recipient.
- GPA 3.93/4.00.

## PROJECTS

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**@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

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**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.