

# Luis Camacho III, CSM

Fullstack software engineer with 14 years of experience building awesome web and desktop applications.

An effective leader, communicator, and collaborator and loves working with code and working with people.

Luis is currently looking to join a new team creating life-changing software applications!

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## TECH

### Web Development

- **Languages and Frameworks:** Typescript/Javascript, HTML/CSS, React, Angular, Nextjs, Node.js, Express
- **UI/State Libraries:** Redux (RTK), MUI, React-Query, JSS, easy-peasy, Chakra UI, Primefaces, Formik
- **Data Visualization:** plotly-js, nivo
- **Utilities:** axios, Bootstrap, jQuery

### Backend

- **Languages and Frameworks:** C#, .NET, Python, PHP, VBScript
- **Desktop Applications:** WPF, Winforms
- **Database & ORM:** Sequelize, Prisma, EF Core

### Cloud Platforms

- Azure, Google Cloud, Firebase, Google Analytics, Google Tag Manager

### Data and Databases

- SQL, SQL Server, MySQL, PostgreSQL, Firebase

### Development Tools

- Git, npm, Poetry, Pip, Docker, Tilt, Dozzle, RedGate, Figma, Streamlit, DataDog

### Testing & QA

- **Frameworks:** Cypress, Vitest, Jest, React Testing Library, Enzyme, XUnit
- **Utilities:** Moq, Autofixture

### Devops & Project Management

- Github, Gitlab, Bitbucket, Jira, TFS, WyBuild

## EXPERIENCE SUMMARY

### RunSafe Security, VA – Senior Software Engineer

May 2024 - Nov 2024

### Intertech, MN—Full Stack Software Consultant

June 2019 - May 2024

### Emerson, MN — Lead Senior Software Engineer

Feb 2014 - June 2019

### Freelance Web Developer, MN

May 2012 - May 2013

### Thomson Reuters, MN— Software Engineer

May 2009 - Feb 2014

## EDUCATION

### Bachelors of Science, Computer Science

University of Minnesota, Twin Cities - 2010

### Associate of Science

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# Skills by years of experience

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Javascript/HTML/CSS	15
C#	8
SQL	9
Typescript	7
React	6
Redux	6
MUI	6
Bootstrap	5
.NET	6
git	5
Jest	6
Formik	4
jQuery	4
Azure	4
Angular	3
XUnit/Moq	3
plotly-js	2
Google Cloud	2
Docker	3
Enzyme	2
bitbucket	2
Node.js	1
Python	1
NextJs	1
Vitest	1
Cypress	1

# Publications

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- [Cut Your Redux RTK Code In Half By Wrapping All Your Slices With This Clever Typescript Hook](#)
- [Refactoring Your React/Vue/Angular/Typescript App? The Barrel Feature Helps Make It Easier.](#)
- [Are You Still Managing React State With Plain Redux?](#)
- [Create a robust notification system for your React App using MUI and Redux Toolkit](#)
- [17 Of The Best VS Code Shortcuts You Didn't Know You Needed](#)
- [Stop Wasting Your Time: Why Software Developers Must Embrace ChatGPT Now!](#)

## 3 Part Series - Introduction to Plotly in React

- [Part 1 of 3: Plotly in React – Real time data visualization](#)
- [Part 2 of 3: Plotly in React – Display Multiple Selections with Annotations](#)
- [Part 3 of 3: Plotly in React – Merge Multiple Selections using polygon-clipping](#)

## 3 Part Series - Advanced Plotly in React

- [Part 1 of 3: Controlling Plotly in React – Control the Modebar](#)
- [Part 2 of 3: Controlling Plotly in React – Fully Custom Annotations](#)
- [Part 3 of 3: Controlling Plotly in React – Adding Custom Color Markers by Category](#)

# Experience

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## RunSafe Security

Senior Software Engineer

May 2024 – Nov 2024

### Projects

#### Alkemist Portal Redesign

May 2024 – November 2024

- Planned, wrote, and deployed a complete redesign of the Alkemist Portal
- Built customer facing sign-in including authentication, authorization, signing in, creating a user, forgot password, and resetting password.
- Using MUI v6, added a light and dark mode with fully custom palette.
- Overhauled redux implementation to use Redux RTK
- Added e2e and component tests using Cypress for all functionality
- Maintained backend with Node, TypeScript, and Sequelize, ensuring high performance and stability and achieved 100% test coverage with Vitest.
- Tech Used
  - React, Typescript, NextJs, Tilt, Sequelize, PostgreSQL, Google Analytics/Tag Manager, nivo

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## Intertech

Full Stack Software Consultant

July 2019 – May 2024

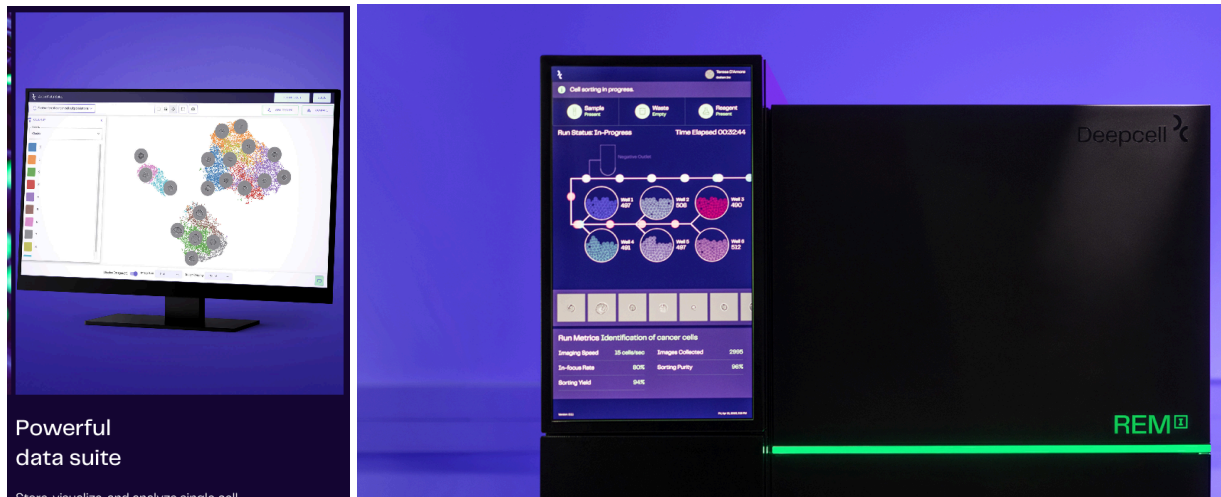
### Projects

#### Deepcell: Cell Labeling Application

April 2022 – May 2024

- Worked remotely on a cell labeling web application used by an internal biology team located in San Francisco, CA.
- Frontend
  - Reduced frontend loading times by over 90% by analyzing code with Chrome performance tools and finding and resolving code inefficiencies.
  - Used matter-js to add a physics-engine powered representation of cells moving through channels. The animation was used in Deepcell's marketing campaign for their REM-I product.
  - This visualization below was the focal point on the REM-I product, which [was named "Cell Imaging Product of the Year,"](#) one of only four breakthrough innovations in the field of cell biology, in the third annual [BioTech Breakthrough Awards](#).

- REM-I also won a 2023 Innovation Award from [The Analytical Scientist](#).
- With plotly-js, created a complex data visualization umap to allow users to more easily organize their scientific findings.
- Greatly increased unit test coverage on new and existing components with Jest and react-testing-library



- **Backend**
  - Supported a python backend. Also added whole features to a streamlit application that consumed a pandas dataframe.
  - Used shapely library to create sophisticated logic around polygon merging and subtraction with test coverage.

### Key Accomplishments

- Only candidate in company's history to score 100% on the front-end technical assessment
- After a major update of the application (Mui4 to Mui5, React 14 to React 18, introduction of Redux) I presented the successful results via Zoom to the entire company
- Wrote and delivered an import/export session process for their application in 2 days when the work was estimated to take 2 weeks (thanks, Redux!).

### Tech Used

- react, redux, git flow, plotly-js, polygon-clipping, matter-js, jest, testing-library
- python, apache-arrow, pandas, streamlit, poetry, pip

## **Homepoint Financial: Whole Loan Delivery Application & Corporate Website**

November 2021 – April 2022

- Worked remotely on a cross functional team with developers, BA's, QA, and a PO, alongside an offshore team in India.
- Performed significant refactoring on their Whole Loan Delivery (WLD) Application which was designed to consolidate unused mortgages and allow large banks to bid on completing them.
- Updated the global facing corporate website homepointfinancial.com
- Mentored other team members in best practices for modularization and reusability of React components along with proper unit test coverage.
- Integrated Datadog onto the frontend application allowing for full logging and monitoring of all exceptions and vitals.

### Key Accomplishments

- Completely rebuilt their application authentication process in less than 3 days using Azure's msal-browser and msal-react libraries.
- Reduced existing Redux code by 75% by replacing existing vanilla architecture with Redux Toolkit (RTK) and RTK Query.

### Tech Used

- React, Redux, Typescript, Jest/Enzyme, NextJs, chakra-ui, react-bootstrap, fluent-ui, C#, .NET Core Web API, EF Core, SQL, Docker

## **RSM: Application for Finance team**

March 2021 – October 2021

- Worked on migrating a complex legacy system to a React application heavily integrated with MaterialUI and Formik.
- Utilized code-first approach with EF core constructing class models to represent the database schema and using migrations scripts to construct the database.
- Worked largely with Automapper to construct back-end logic layer

### Tech Used

- React, Redux/Easy Peasy, Typescript, MaterialUI, Formik, axios, C#, .NET Core Web API, EF Core, SQL

## **RSM: Applications for Tax team**

August 2020 – March 2021

- Designed and built initial React application based on broad, high-level business vision.
- Worked closely and continuously with BA's and UX'ers on the design and experience of the application.
- Trained and supported existing team members who were new to React and Typescript. Helped with onboarding new employees as well.
- Created an internal npm React package around oidc-client to use as an auth component for RSM internal apps.
- Used Azure pipelines and artifacts to deploy internal npm packages to be used across multiple microservice applications

### Key Accomplishments

- As sole member on new team with React proficiency, I mentored new members on React fundamentals and advanced concepts.

### Tech Used

- React, Redux, Typescript, MaterialUI, Formik, C#, .NET Core Web API, EF Core, SQL, Docker, YAML

## **RSM: Applications for Tax Services team**

July 2019 – August 2020

- Built on a multi-screened application with sophisticated UI components based on requirements from design team.
- Reconstructed the application architecture to use a microservice format.
- Utilized several open-source libraries such as react-table, react-virtualized, draft-js, lodash, and redux-thunk.
- Used test driven development for back-end C# code

- Incorporated Azure tools like blob storage, functions, and service bus with application.
- Worked on rotating scrums teams on a two-week sprint schedule which includes sizing meetings, daily stand-ups, demos, and retrospectives.

#### Key Accomplishments

- Refactored entire vanilla redux code to use typesafe-actions library, cutting the amount of boilerplate code in half.

#### Tech Used

- React, Redux, Typescript, Jest, JSS, C#, .NET Core Web API, EF Core, SQL, Docker, Jest/Enzyme

# Emerson

Lead Senior Software Engineer  
January 2014 – July 2019

#### Projects:

#### **Global Manufacturing System (GMS)**

- Maintained a desktop manufacturing application with a WPF/WinForms → C# → SQL Server MVC stack used by +7000 global users. Application interfaced with +60 of different types of connected equipment (PLCs, ovens, torque drivers, cameras, voltmeters, etc...) using more than a dozen various communication protocols like USB, GPIB, TCP IP, Serial, Hart, and Fieldbus.
- Supported SQL backend with +1 billion records, +1500 tables, +1300 sprocs, +300 views, source controlled and duplicated globally across +10 different world sites.
- Led all issue analysis meetings for multiple teams that requested new development initiatives.
- Provided technical consultation for in-house Innovation Team when they had ideas for supply chain or when they brought in outside representatives to showcase their products.
- Trained in and mentored new developers (3 locally and 1 in Sweden) as our team size doubled in 2 years.

#### Key Accomplishments

- Took initiative in leading issue analysis meetings and being the “face of GMS” to our internal customers.
- Independently integrated a 3rd party disc creator into our manufacturing line and GMS program, saving the company thousands of dollars a year in contracting out the task.
- Was lead developer for the [5408 Level](#) product including developing GMS modules and testing integration.

#### Tech Used

- C#, WPF/Winforms, SQL Server 2012

#### **WyBuild Deployment Integration**

- Saved the team +100 developer hours a year by integrating WyBuild.
- Promoted and delivered a restructuring of the global release process so the tasks would be spread across 8-10 people instead of just 1.

### Key Accomplishments

- After convincing tech lead and manager to let me work on this project for a month, I was sole developer in researching, coding, testing, and integrating WyBuild into our release process which ended up saving our teams over 100 developer hours a year.
- Figured out a way to use WyBuild to revert to previous application versions (something the creator of WyBuild said was impossible).

### Tech Used

- C#, WPF/Winforms, WyBuild, SQL Server 2012

## **GMS Insight**

- Designed and implemented a web-based version of portions of our desktop application. Used HTML, Bootstrap, and AngularJs for the View and used AngularJs with .NET WebAPI to connect to existing C# modules that were used in our existing manufacturing application.

### Key Accomplishments

- Independently refactored application to provided stylistic consistency.

### Tech Used

- AngularJs, .NET Framework Web API, C#, SQL Server 2012

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# **Freelance Web Developer**

May 2012 – May 2013

## **Projects**

### **Mix It Up Painting Parties**

- Created a responsive AngularJs website for customers to sign up for painting parties and pay via PayPal.
- Constructed a gallery using Masonry.js connected to a Flickr API.
- Created a simple email follow-up system with PHP.
- Managed domain and web hosting.

### Key Accomplishments

- Used PHP.
- Built website and managed hosting entirely from scratch.

### Tech Used

- AngularJs, Bootstrap, PHP
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# Thomson Reuters

Junior Software Engineer  
May 2009 – January 2014

## Projects

### SAP MII Implementation and Deployment

- Successfully implemented MII through a full project cycle which involved requirements gathering from the customer, leading blueprinting meetings for dashboard design, developing code, creating testing scenarios, and post go-live troubleshooting and bug-fixing.
- Created object oriented, data-driven web dashboards used by 100+ manufacturing employees on the shop floor and in supervisory offices.
- Constructed MII powered data flow processes using IDocs between SAP ERP, MII business logic services, and SQL databases.
- Wrote detailed and multi-faceted SQL Data reports and accompanying visual interfaces for business users. Reports involved efficiently joining multiple tables, stored procedures, and views to provide valuable business information.

#### Key Accomplishments

- Learned javascript and jQuery entirely from self study online and became SME in both during the project
- Along with one other developer, built from scratch the new warehouse manufacturing system to replace their existing Highjump application.

#### Tech Used

- HTML, Vanilla JavaScript, JQuery, SQL, SAP MII

### SAP Support

- Supported SAP applications and created specs for developers based on business requirements
- Enhanced SAP screens with GUIXT and VBScript

#### Key Accomplishments

- First job out of college!
- Became department GUIXT expert in less than a month

#### Tech Used

- SAP, GUI XT, VBScript

### Systems Analyst Intern

- Rebuilt windows servers in two fully redundant server warehouses
- Assisted VM Ware migration

#### Key Accomplishments

- First internship!

## Tech Used

- Windows Server 2008

# Personal

## Interests

- Guitar
- Public Speaking
- Music production
- Sports
- Lifting weights
- Running
- Videogames
- Tabletop games
- Laughing with my wife
- Wrestling with my 4 kids