

## Contact

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## Top Skills

React

Angular

C++

## Certifications

Developing AWS Lambda Functions with Kotlin

Serverless and Microservices for AWS

Learning AWS Amplify

Learning GraphQL

Angular Essential Training

# Jeffery "Lee" Peterson

Software Developer, Designer, Engineer, Database, IT Manager,  
CTO Full Stack web, app, mobile, embedded, enterprise  
Newport Beach

## Summary

Comfortable with anything, the kind of comfort and confidence that comes with years of experience and grinding. For 15+ years, I have been getting it done! Designing and implementing systems and tools for fortune 500 company's IT and Marketing departments. Hands on lead dev role, CTO consulting services, as well as hiring and managing clients IT staff - remote and local. With Billions of seamless transactions with 100's of millions end users, odds are good you have interacted with my automated conversational engine software and not even known it. Excellent troubleshooter and debugger.

## Results

Proven leader with 10+ years executing on web app, mobile, and enterprise level development projects

Build and lead software engineering and programming teams of 15-20 size

Managed on and offshore devs for domestic and international projects

Superior record in consistently delivering on time and under budget  
Front and backend technical skills, strong client focus, collaborative approach and leadership

## Projects

CRM / CEM Systems and Software that has handled Billions of automated omni channel customer interactions with mission critical high availability

UI / UX redesign and conversion from jQuery and Bootstrap to React and Material UI

AI conversation engine with Natural Language Processing

Open GL missile tracking simulation for radar intercept of various ballistic types and radar sites from around the world.

## Most Recent Experience

React Redux Saga Material UI Slack Jira Trello Nagios Node  
NPM Apache Tomcat Ubuntu Katalon Basecamp HTML CSS  
Javascript mySQL Percona git github Adobe Photoshop Pixelmator  
Pro Keynote C++ Java AI NLP Chat Fuel Dialog Flow Marketing  
Conventions Sales Funding jQuery Ajax Bootstrap Lint Babel CLI  
AWS

#### Soft Skills

Creativity

Project Management

Team Leadership & Communication

Managed both Offshore & Onshore Teams

Business strategy

Product innovation

Marketing

Lean Startup methodology

#### Hard Skills

C/C++ Java / Javascript

React / Redux / Material UI

Cloud Computing / Serverless Stack / Microservices

Artificial Intelligence / Natural Language Processing

Corporate Communications

Express / Apache / Tomcat / Lucee

SQL / mySQL / noSQL / DBA

UI / UX Design and Implementation

Atom / Chrome Dev Tools / VSCode

CI, CD / Git / Test-driven dev / Jest

From Healthcare->Missile Defense->Welfare Fraud Detection-  
>Stock Brokerage Backend Systems>Online Automotive  
Purchasing->Messaging Platforms->Social Media->Cloud Platforms-  
>Mobile Marketing tools and services->University Instructor

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## Experience

#### Model Match

Lead Software Solutions Architect

March 2020 - Present (1 year 3 months)

San Clemente, California, United States

Working with Serverless stack backend with AWS Cognito, GraphQL, DynamoDB, Elasticsearch, and Angular, typescript, RxJS, Apollo, Material UI on the front end to build out a recruiting/CRM platform for the Mortgage Industry.

Key projects so far

Playbooks

Tags

Integrated click to call for agents

Reporting and Analytics

Widgets and Dashboards

User and Company management

Multiple Third Party Integrations

Upgrade environments - from Angular 6 -> 10

Friction Removal in the existing UI/UX

New Daily Scrums

UC Irvine / Trilogy

Lead Instructor - Web Development

October 2019 - Present (1 year 8 months)

Sharing my passion to create, build and code, this class teaches full stack software development to students who graduate with key skills for web development, including\*: Computer Science applied to JavaScript, Browser Based Technologies (HTML, CSS, JavaScript, jQuery, React), Databases (MySQL, MongoDB), Deployment, C# (ASP.NET), Quality Assurance, Server Side Development (Node.js, Express, MERN Stack). Schedule is Tue and Thurs nights and Saturday during the day.

SireMobile.com

Developer, Programmer, Engineering, Research and Design services, Consultant, CTO Services

January 2016 - October 2019 (3 years 10 months)

Newport Beach, CA

Startup to provide a custom online platform with focus on bringing SMBs Enterprises class marketing and automation tools to create and manage customer communications and marketing campaigns.

Designed mySQL database for full system. High performance, data integrity, security, monitoring and maintenance. Percona performance monitoring tools. OLTP for production, Real Time OLAP slave Reporting and Analytics with

virtual IP for quick promotion and failover in emergency. over 99.999 up time over last 3 years. Optimized for AWS EBS performance by using Provisioned IOPS. Provided support as primary DBA as needed.

Tomcat backend for java. Apache for SSL. JSession tokens for user sessions. Initial front end with Bootstrap, jQuery, and Ajax. Later upgraded from Bootstrap to Material UI and improved using React, Redux, Saga with Material UI. Integrated node NPM tools such as cli, axios, socket.io-client and many other tools.

Full REST API - support basic and several advanced authentication methods such as public/private key with expiring hash

Designed and Architected as well as provided a good chunk of the heavier lifting development to world class product using onshore and offshore teams. 6-12 direct reports. Managed teams with Jira, Trello, and virtual and local whiteboards for each dev. All code maintained via github.

Open sourced all primary servers and tools. No license fees required to run system. All backend servers on (Ubuntu) Linux

SMPP and API servers for connection to the back end telecom network direct. Not just another app reselling someone else's backend. Monitored and tuned performance with javamelody tools. Supports 2+ million plus request per hour and scalable to much higher at \$50 a month per additional AWS server.

Features include AI tools, List management, Automation, API, Reporting and Analytics, Short URL, Marketing Landing Pages, CC processing, Account Management, SMS, Over the Top, facebook messenger, Slack, Line, and more. [www.siremobile.com](http://www.siremobile.com)

## ReactionX, LLC

Developer, Programmer, Engineering, Research and Design services, Consultant, CTO Services

August 2001 - January 2016 (14 years 6 months)

Newport Beach, CA

Delivered literally 1000's of projects on time and under budget using both onshore and offshore teams for a variety of Fortune 500 clients.

Built custom C++ code for integrating legacy telecom equipment with Finite State Machine with Database configuration and control.

C++, Java, javascript, and other code to support all aspects 300K+ custom CRM campaigns

Built systems to provide Telecom, Banking, Healthcare compliance SAS70, PCI, Hipaa standards with quarterly reviews from external security agency.

Designed and built a real time MFA application for a large banking client running with 99.999% uptime for the last 12 years. Weekly reports with uptime monitoring to ensure Level One compliance.

multi location systems for reliability and high availability with true kick the cord failover

Support multiple contracts with SLA 99.999% uptime

Distributed Database Systems that can run with connectivity failures and auto recover when re-connected. Full Data Warehouse for historical trends and reporting.

Full script recording system written in C++. Stored, managed audio script files to provide seamless human text to speech.

Build a full alert and notification system for a top telecom. All automated inbound and outbound communication provided as an internal service.

Wrote the Roadmap for Enterprise Class Messaging Programs for multiple large scale enterprises in banking, telecomm, healthcare, utilities and more.

Compliance - Approval Process - Legal Review - T's & C's

Connectivity - ETL - Feeds - Integrated into 1000's of APIs

Business Rules - Campaign Def

Reporting and Analytics

Integrated and Provisioned multiple Channels - Phone, email, SMS, OTT - Quest, AT&T, Line App, Facebook, twitter, and more

Multiple winning RFP responses that led to SOW, Project Plans, and successful delivery of systems and software

Built out and Managed multiple colocation centers

After many years of collecting license fees, finally just sold copy of existing software and systems for a lump sum.

## Globallink Securities

Sr. Programmer / Developer

November 2000 - August 2001 (10 months)

Walnut, CA

Realtime web based charting tools

Realtime hardware and software based printer interception and logging of transactional data as it is printed

## Autobytel.com

Sr. Programmer / Developer

August 1999 - November 2000 (1 year 4 months)

Irvine, CA

Database warehouse project - learned a ton of database skills here. Backups, structure, design, creation, integrity, backups, redundancy, ETL, and more.  
List Marketing. Wrote multi threaded C++ email engine capable of 1,000,000 emails every 20 minutes.  
Data analysis and cleaning of merged companies. Found many duplicate customers that did not count towards sales value

#### Northrop Grumman Logicon RDA division

Programmer / Developer

November 1997 - November 1999 (2 years 1 month)

San Pedro, CA

Penetration / hacking nuclear launch control computers to bypass codes  
LA County Welfare Fraud systems - data ETL  
import / export code from legacy systems to newer systems

#### TRW Ballistic Missiles division

Programmer / Developer

June 1995 - November 1997 (2 years 6 months)

Norton Air Force Base San Bernardino, CA

Radar simulations with OpenGL - 3D map of earth with radar station cones of detection on and incoming missile tracks. Highlight point of detection for various object types  
Source Code analysis tool for ADA  
Healthcare management systems - data ETL

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## Education

#### University of California, Riverside

Bachelor of Applied Science (B.A.Sc.), Physics, Engineering, and Computer Science

#### UCLA

Extension program for Masters Course work in Computer science including Distributed Database Systems