

# Kenneth Lum

## Senior Software Engineer, Contractor - Exponential Technologies Inc

San Mateo, CA - Email me on Indeed: [indeed.com/r/Kenneth-Lum/1e5615238f77725e](https://www.indeed.com/r/Kenneth-Lum/1e5615238f77725e)

Web Front End Development

Authorized to work in the US for any employer

### WORK EXPERIENCE

#### Senior Software Engineer, Contractor

Exponential Technologies Inc - April 2016 to Present

Developed the stock trend analysis tool for different sectors for an investment group, using Rails 4.0, Ruby 2.0, JavaScript, and jQuery 2.2.1.

- The system performed historical pull of data of all securities, and obtained daily updates, and provided alerts according to criteria set by the clients.
- Developed and maintained various tools for the system.

#### Senior Software Engineer, Health Metrics

- June 2014 to January 2016

Developed an iOS app using Objective-C and Swift 1.x for iOS 7.0 and 8.0, on XCode 5.1.1 and 6.1, using Cocoa Touch, UIKit, and Core Animation.

- Developed the related website using HTML5, CSS3, JavaScript, and jQuery. Developed the second generation of the website using AngularJS 1.0 and Bootstrap 3.

#### Senior Front End Engineer, Contractor, Apple Online Store

Apple Inc - March 2013 to March 2014

Developed for the Apple Online Store which let US\$1.5 billion of business go through each month, at a rate of US\$50 million of business per day.

- Developed the iPhone, iPad, Macbook, iMac purchase pages and purchase flow.
- Developed the third party product details page.
- Created webpage object-oriented widgets using JavaScript, jQuery, and CanJS. Developed extensively using the MVC design pattern, with HTML5 local storage, model, controller, view, and Mustache / Handlebars. The view would automatically update itself on model (data) change.
- Implemented behavioral driven tests on all code (BDD rather than TDD), using Jasmine and jasmine-jquery, HTML and AJAX fixtures, simulated user behaviors on the page, mocked AJAX, mocked metrics, and mocked JavaScript clock ticks.
- Fixed bugs that occurred on IE 8 and 9, Safari, Firefox, and Chrome browsers and Safari on iOS 5.x and 6.x on iPhone and iPad.

#### Senior Software Engineer, Contractor

Yahoo Finance, Yahoo Inc - December 2012 to March 2013

Worked on a non-disclosed JavaScript app for Yahoo Finance using JavaScript and Cocktails / Mojito, based on Node.js and YUI.

- Implemented the existing Yahoo Finance page components using the new framework.
- Implemented the app capable of running either on the client side or the server side, as the code base was all in JavaScript and was able to run on the browser or the web server on NodeJS, and could be switched dynamically according to browser capabilities and server load.

## **Self Proprietor, iOS and Cocoa Application Development**

Memory Management - June 2011 to December 2012

Worked on iOS projects using Objective-C and Xcode, using Cocoa Touch, Foundation, UIKit, Core Graphics, Core Animation, Memory Management (MRR, ARC, Analyze / Instruments), KVO, Game Center (Leaderboard, Achievements), GameKit peer-to-peer connectivity, and Cocos2d.

## **Senior Software Engineer - Web Front End Development**

GoodGuide Inc - May 2010 to June 2011

Performed main website enhancements using Ruby on Rails and added front end functionalities such as toggleable product switching toolbar with AJAX, AJAX bookmark and history, various jQuery animation effects, performance tuning for page loading and rendering. Worked on browser compatibility issues (IE 7, 8, 9, Firefox, Chrome, and Safari).

- Dealt with XML data. Added Google Analytics data fetching and report generation for corporate clients, and data storage using MongoDB. Worked as the principal engineer for overall site re-design. Added Facebook and Twitter social elements and SEO to the site.
- Developed a new baby food ratings website from the ground up using Rails 3.0 and Ruby 1.9.2, and made the whole site configurable to become any website for any consumer sector, fetching data from the GoodGuide data store, by altering one YML file and one SASS (CSS) file.

## **Senior Software Engineer - Web Front End and Facebook App Development**

RockYou Inc - October 2007 to May 2009

Implemented MyGifts and Super Wall (renamed RockYou Live) on Facebook and added main features and viral channels on a daily basis. Usage was 3.4 million active users per day and was the number one application on Facebook in various months of 2008 and 2009, with up to 20 million monthly active users each month.

- Implemented main features, viral channels, tested in fine details on various browsers (IE 6, 7, 8, Firefox, Chrome, and Safari) with a development server, and pushed to production servers on a daily basis.
- Adapted to rapid changes of Facebook API and viral channel changes as enforced by Facebook. Other tasks included RockYou's flagship applications on MySpace, Friendster, Hi5, and Bebo: Slideshows, PhotoFX, GlitterText, and FunNotes. Tools and frameworks used: PHP, CSS, HTML, JavaScript, AJAX, Prototype.js, FBML, FBJS, on the LAMP stack.

## **EDUCATION**

### **B.A. in Computer Science**

University of California, Berkeley - Berkeley, CA

## **SKILLS**

jQuery (10+ years), AJAX (10+ years), XCODE (3 years), HTML5 (2 years), JAVASCRIPT (10+ years)

## **ADDITIONAL INFORMATION**

### **DEVELOPMENT SKILLS:**

Web JavaScript ES6 (fluent), Object-oriented JavaScript (Prototypal and Pseudo-classical Programming: inheritance) (fluent), AngularJS, Deferreds, Promises, AJAX, CSS3, HTML5, jQuery (fluent), CanJS (MVC framework similar to React, Backbone.js, and Ember.js,

fluent), Jasmine (fluent), accessibility / ARIA, Responsive Web Design (prior experience), Single Page Application (SPA) architecture, Bootstrap, Zurb Foundation, Node.js, Ruby on Rails, Sass / Less, HAML, DOM Scripting (prior experience).

Languages: Ruby, Python, PHP, Perl, C / Go, Java, Scheme / Lisp, Smalltalk, SQL, Bash shell scripts.

Platforms: UNIX and its internals, Mac OS X / XCode, Windows Programming (Win32), MFC.

Databases: MySQL, Oracle DBMS, MongoDB.

Others: sed / awk, Unicode / UTF-8, Regular expressions, Git, Mercurial, SVN, Charles Proxy (to mock up files for bug fixes or for feature enhancements), Continuous Integration, PhantomJS, Jenkins, JSLint, Grunt, Istanbul, Fiddler, YSlow.