# ROGER CHAO

## Summary

Full-Stack Software Engineer passionate about building robust and scalable applications. With a demonstrated history of working in the software industry and a computer science background, I am constantly seeking to hone my skills further by concerning myself with good design patterns, modular programming and performance considerations. In my free time, I dabble into machine learning, big data, and cat memes.

## Employment

**Gigglesoft Corporation**  **Vancouver, BC**
Software Engineer  **Aug 2014 - Dec 2016**

• Engineer dynamic HTML5 JS Dojo interfaces for server modules
• Created complex statistical reporting tools to export 3GB of weekly industrial process data in environment with strict data limits
• Coordinate with firmware developer to rate limit database transactions
• Customize sanitation libraries for industrial PLC Modbus data API
• CLI administration (CMake, Bash, Expect/tcl, etc)

**Sitemax Systems**  **Vancouver, BC**
Software Engineer  **Oct 2015 - Jan 2016**

• Engineer back-end logic and coordinate with front-end developer to build social application in PHP, Angular, and Firebase
• Customize bootstrap theme and designed page with analysis tools

**LearnQuiq Media Ltd**  **Vancouver, BC**
Web Developer  **Jun 2014 - Jul 2014**

• Implement administrative panels and integrate search features
• Extend user entity to fit database schema and optimize search query

**Fannco Ltd**  **Richmond, BC**
Contract Web Developer  **Jan 2014 – April 2014**

• Architected back-end controller logic and database schema
• Improve scalability by denormalization of provider and requester table

## Projects

**Roger Chao Personal Home Page**  **Mar 2017 - Current**
Node | Express | Postgres | Bootstrap | Nginx | jQuery | SASS

Personal home page utilizing Postgres to store a blog and gallery to showcase my projects. Nginx reverse proxies to my Express server to deliver content to viewers. Currently a work in progress.

**Focus – Social Network for Photographers**  **Feb 2017 - Current**
Node | Express | React | Postgres | Knex | JavaScript | MaterialUI | Babel | Webpack | Cloudinary API

Social network for photographers to more easily connect with clients. Node.js, Express, and Postgres make up our API server which our React front-end make HTTP requests in order to upload photos, create profiles, and generate content for clients to book consultations.

**Chatty – WebSocket Chat Client**  **Feb 2017 - Feb 2017**
Node | Express | React | WebSocket | Bootstrap | SASS

Chat client using WebSocket with React front-end. This SPA communicate to our Express server containing our WebSocket.

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Vancouver, BC, Canada

## Education

**The University of British Columbia**
President's Entrance Scholarship
B. Sc. Computer Science 2012

**Lighthouse Labs**
Immersive Web Development 2017

## Skills

**Language**

JavaScript, Java, Ruby, Ruby, HTML, SQL, CSS, PHP

**Back-end**

NodeJS, Express, Rails, Symfony2

**Front-end**

React, jQuery, SASS, Bootstrap, Materialize, MaterialUI, Dojo Toolkit, HTML5, EJS, ERB, JSP

**Databases**

Postgres, MongoDB, MySQL, Knex, ActiveRecord, Doctrine

**Testing**

Mocha, Chai, JUnit, RSpec, TDD, BDD, PHPUnit

**Knowledge**

Asymptotic Analysis, Database Design, Refactoring, Agile Development, OOAD, MVC

**Web**

Nginx, Apache, LAMP, AWS

**Other**

Git, Unix/Linux, Github, Sublime, Vim, Bash, Expect, Jira, Bitbucket

**Soft Skills**

Leadership, Conflict Resolution, Project/Time Management, Multitasking, Collaboration